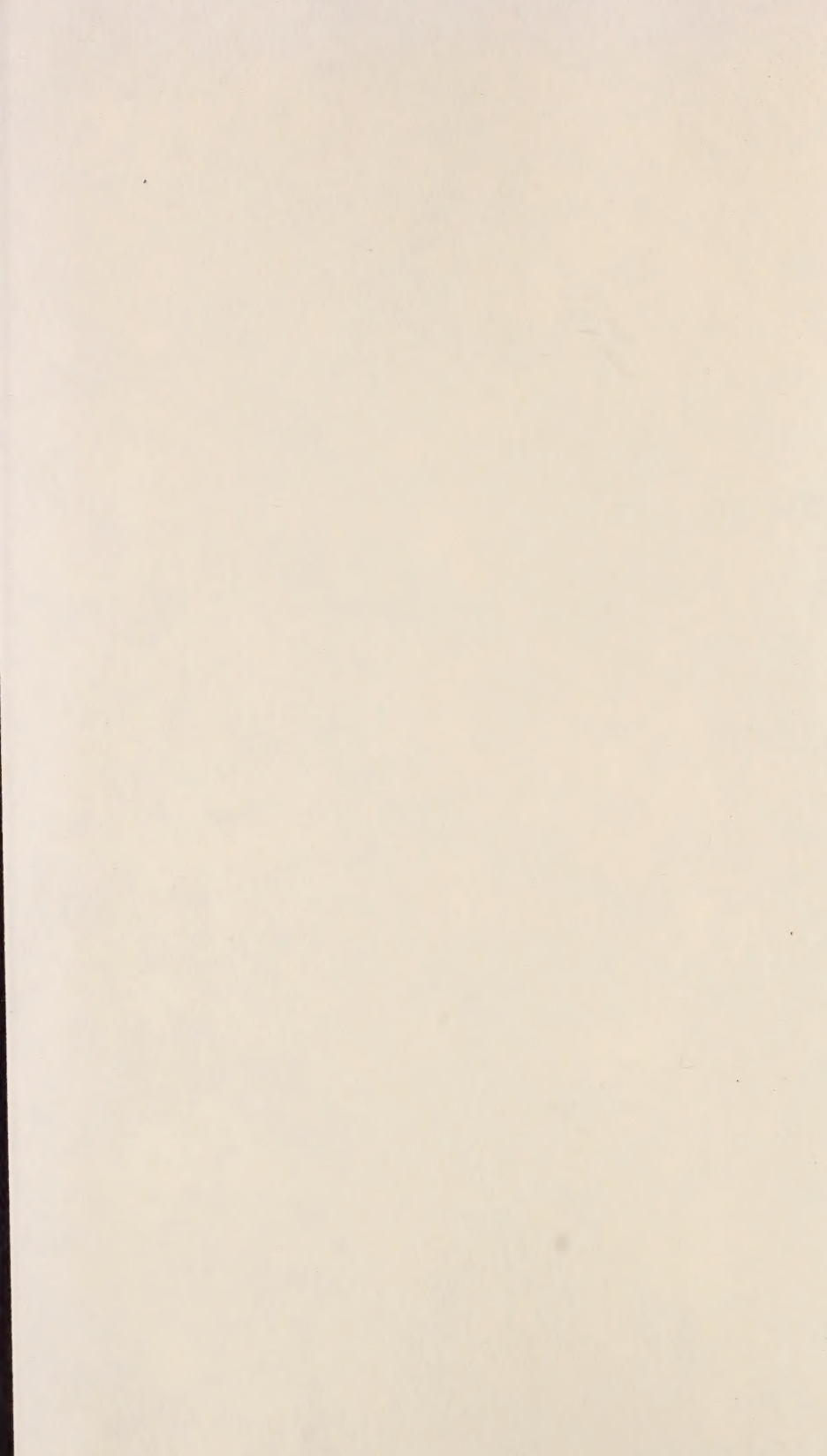






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Montclair State College

Upper Montclair, N.J. 07043

Graduate Catalog
1981-83

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EQUAL OPPORTUNITY STATEMENT

Montclair State College is an equal opportunity/affirmative action institution and does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities (admissions, access to programs and course offerings, physical education, competitive and intramural athletics, counseling, student and other employment, use of facilities, and college sponsored extra curricular activities in compliance with relevant federal and state civil rights legislation).

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action in College Hall.

The Graduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change its announcements and regulations whenever such action is deemed appropriate and necessary.

OFFICE OF PUBLICATIONS
MONTCLAIR STATE COLLEGE BULLETIN
VOLUME 73, NUMBER 5

MONTCLAIR STATE COLLEGE

Graduate Catalog 1981 - 1983

GRADUATE OFFICE TELEPHONE
(201) 893-5147

FAILURE TO READ THIS PUBLICATION DOES NOT EXCUSE STUDENTS
FROM THE REQUIREMENTS AND REGULATIONS DESCRIBED HEREIN.

UPPER MONTCLAIR, NEW JERSEY 07043

ACADEMIC CALENDAR

FALL SEMESTER 1980

August 25, 26, 27	Registration/Orientation
August 25, 26	Evening Registration
August 30, 31, Sept. 1	Labor Day Holiday Weekend
September 2	Classes Begin
September 2-November 26	Classes. Classes will meet until the regular close of the course day.
September 8	Last date to withdraw with full refund
October 8	Last date to withdraw with 50% refund
October 15-31	Pre-registration for Spring 1981
October 27	Last date to withdraw-WD
November 27-30	Thanksgiving Holiday
December 1-16	Classes
December 17-23	Examination Period
December 24-January 4	Christmas Holiday

SPRING SEMESTER 1981

January 20, 21, 22	Registration/Orientation
January 20, 21	Evening Registration. If the college is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
*January 23-April 12	Classes
April 13-19	Spring Recess
April 20-May 15	Classes
May 16-22	Examination Period
May 27	Commencement

SUMMER SESSION 1981

June 8, 9	Registration
*June 15-August 6	Eight-Week Evening Classes
*June 29-August 7	Six-Week Classes
July 3	Holiday-No Classes

FALL SEMESTER 1981

August 24, 25, 26	Registration/Orientation
August 24, 25	Evening Registration
September 1	Classes Begin
*September 1-4	Classes. Classes will meet until the regular close of the course day.
September 5, 6, 7	Labor Day Holiday Weekend
September 8-November 25	Classes
November 26-29	Thanksgiving Holiday
November 30-December 16	Classes
December 17-23	Examination Period
December 24-January 3	Christmas Holiday

SPRING SEMESTER 1982

January 19, 20, 21	Registration/Orientation
January 19, 20	Evening Registration. If the college is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
*January 25-April 4	Classes
April 5-11	Spring Recess
April 12-May 17	Classes
May 18-24	Examination Period
May 26	Commencement

SUMMER SESSION 1982

June 7, 8	Registration
*June 14-August 5	Eight-Week Evening Classes
*June 28-August 6	Six-Week Classes
July 5	Holiday-No Classes

FALL SEMESTER 1982

August 30, 31, September 1	Registration/Orientation
August 30, 31	Evening Registration
*September 2, 3	Classes Begin
September 4, 5, 6	Labor Day Holiday Weekend
September 7-November 24	Classes. Classes will meet until the regular close of the course day.
November 25-28	Thanksgiving Holiday
November 29-December 16	Classes
December 17-23	Examination Period
December 24-January 2	Christmas Holiday

*For withdrawal dates and pre-registration, see the Course Schedule Booklet or call the Registrar's Office (201) 893-4136.

THE COLLEGE RESERVES THE RIGHT TO MODIFY THIS CALENDAR

MASTER OF ARTS DEGREES OFFERED

Administration and Supervision
Biology
Business and Distributive Education
Chemistry
Communication Sciences and Disorders
Computer Science
Counseling, Human Services, Guidance
Educational Psychology
English and Comparative Literature
Environmental Studies
Fine Arts
French
Geoscience
Health Education
Home Economics
Industrial Education and Technology
Music
Physical Education
Psychology
Pure and Applied Mathematics
Secondary School Reading
Social Science
Spanish
Speech and Theater
Master of Arts in Teaching (M.A.T.)
Secondary School Teaching

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GENERAL INFORMATION

Founded in 1908, Montclair State College is a publicly supported coeducational college. It is one of the eight state colleges of New Jersey. From the beginning, the College stressed the importance of high calibre students, faculty and programs, as exemplified by hiring mathematics educators of international status. When, in 1927, it was recognized that New Jersey needed quality, locally trained high school teachers, solidly grounded in subject matter, Montclair was selected to be the site. The elementary program was phased out of Montclair State Teachers College, and by 1928 the new curriculum was in place. Thereafter, students majored only in english, foreign languages, mathematics, science and social sciences, and received the B.A. degree with certification. The first Master of Arts degrees were awarded in 1933.

In July 1958, the College was given its present name to reflect the changes toward a more traditional graduate and undergraduate education in the liberal arts and sciences in that certification became optional. Only after the state created a Department of Higher Education in 1966, however, did offerings develop in other professional fields.

Between 1958 and the present, therefore, program availability increased as dramatically as the enrollment, from 1512 students to 14,500. Despite the change in size, college policies on hiring the best trained faculty available and providing the best resources the state will allow have remained in force. Undergraduate and graduate programs are expected to be of intrinsic merit and social utility. They are open to all part and full-time students without distinction of sex, race, religion, national origin or handicap; the primary consideration is given to the student's ability to successfully complete and to benefit from the program.

ACCREDITATION

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted the College full accreditation for the preparation of elementary and secondary school teachers and school services personnel.

MEMBERSHIPS

The College is a member of the Council of Graduate Schools in the United States, the Northeastern Association of Graduate Schools, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities, and the American Association of Colleges for Teacher Education. Women graduates of the College are eligible for membership in the American Association of University Women.

The Department of Chemistry in the School of Mathematics and Science is accredited by the American Chemical Society. The Department of Music in the School of Fine and Performing Arts is accredited by the National Association of Schools of Music.

FUNCTIONS

Montclair State College serves three broad functions: instruction, research and service.

Instruction: The Graduate Division offers programs for the preparation of professional personnel in the areas of administration, biology, business and distributive education, chemistry, audiology, art, computer science, counseling and guidance, educational psychology, environmental education, management and science, health, learning disabilities, health, home economics, industrial arts, mathematics, music, physical education, psychology, reading, special education, speech pathology, speech and theater arts, among others. It is possible also to obtain traditional advanced liberal arts training in English and comparative literature, French, Spanish and the social sciences. Continuing education both on and off campus for other than degree purposes is also part of the function.

Research: Research and scholarship by the faculty and staff are encouraged by the Graduate Division to constantly add to the knowledge on which degree programs are based. Research in the areas of biology, psychology, sociology and speech communication is unusually extensive. Studies of teacher education problems (teacher stress and the teaching of writing), technological developments (wind energy), field surveys (which social, natural and physical science professors in the New Jersey State Colleges are researching, and why) are under current scrutiny and will be reported, as usual, in professional literature and to professional and governmental organizations.

Service: The service function involves consultancies to business, education and governmental agencies. Included also are such activities as sponsored workshops, publications, surveys and research, and participation as committee members and officers in appropriate local, state and national organizations. The School of Fine and Performing Arts also serves the educational and cultural community of North Jersey through concerts and a Music Preparatory Division which, u.a., educates pupils from 3-18 in Suzuki violin, scholarship ensembles from inner city schools and summer workshops.



ORGANIZATION

Montclair State College's academic organization includes schools and a graduate division. Courses are offered through the Schools of Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematics and Natural Sciences, and Professional Studies.

Responsibility for the overall planning, development and administration of post-baccalaureate education at the College is vested in the Division of Graduate Studies, a separate administrative unit within the Office of the Vice President for Academic Affairs and headed by the Dean of Graduate Studies.

General policy governing graduate education at Montclair State College is determined by the Graduate Council composed of graduate faculty members and a graduate student from each school, two academic deans elected by the Dean's Council and the Director of Library Services. The Dean of Graduate Studies chairs the Graduate Council.

The Division of Graduate Studies, in conjunction with the Graduate Council, develops policies and procedures for the conduct of all graduate study and sees to their implementation. In conjunction with the Admissions Office, it processes and evaluates the records of persons applying for entry; its professional staff works closely with students and the departments to facilitate the progress of students from admission to graduation.

ACADEMIC FACILITIES

Montclair State College is located on a 200 acre campus in Upper Montclair, New Jersey, an attractive suburban community fourteen miles from midtown Manhattan. The ease of attending concerts, art galleries, auctions and museums of world ranking is especially valuable to students in the arts, humanities and social sciences. Proximity to New York City also means that well known artists teach and perform at the college for the benefit and pleasure of the entire community.

CERTIFICATION PROGRAMS

For information about certification programs available and admission processes, see page 223.

COMPUTER CENTER

The Computer Center provides facilities for both academic and administrative functions of the college. In consortium with the other state colleges and Rutgers University, the Center offers computer services using

the latest technology available and is a joint owner of ECN, the New Jersey Educational Computer Network.

The College offers a variety of educational services from two locations: several key punch and unit record devices are available for faculty or student use in College Hall, including an IBM 1130 Computer for processing batch jobs through the 370/168 at ECN. In the Math/Science building there is a batch Remote Job Entry Terminal as well as 13 Time sharing Terminals for students and faculty who may use a wide assortment of languages and methods offered through 370/158-370/168. Handbooks and reference documents are available to users at both locations.

CURRICULUM RESOURCE CENTER

The Curriculum Resource Center, located in Chapin Hall, is a collection of materials for use by teachers, curriculum committees and others engaged in planning educational programs. The Center's collection includes textbooks, curriculum guides from New Jersey schools and schools across the nation, learning activity packages, and professional books. The Center maintains evening hours for the convenience of graduate students and teachers. For further information, contact the Director at 893-5220.

LABORATORY FACILITIES

All the science laboratories have been redesigned in the years since 1972, and contain modern equipment. Special facilities include electron microscopy and cell culture laboratories as well as an environmental analysis center.

A modern language laboratory, equipped with 40 tape recorders and a large collection of tapes, serves the needs of students who seek to improve their language skills.

LIBRARY

The Harry A. Sprague Library invites all students and faculty to make full use of its many services. An informed and helpful staff of professional librarians is ready to aid with research needs and to assist in the use of the Library's various comprehensive collections. Aside from the fine reference and circulating book collections, the Library is a depository for United States and New Jersey government publications, has extensive holdings of periodicals and newspapers and is steadily developing a sizable collection of audio and video cassettes, filmstrips and records.

Materials not owned by the Library can often be obtained through the inter-library Loan Service of the Reference Department. Information on data bases in the nearby area is also available there.

The Library has acquired the necessary equipment for viewing and listening to its non-print materials. It also has readers and reader/printers to accommodate the various materials in microform. Other facilities include carrels, group conference rooms, a smoking lounge, coin-operated typewriters, copy machines and public telephones.

Graduate students enrolled in a program at MSC have the privilege of reciprocal borrowing with libraries of the following institutions: Glassboro State College, Kean College, Jersey City State College, NJ Institute of Technology, Ramapo College, Richard Stockton State College, Trenton State College, William Paterson State College, and the NJ College of Medicine and Dentistry. To be eligible, students must present a current ID and proof of NJ address to the circulation desk at the MSC library and obtain from there a special card. When borrowing material from any library, take special note of regulations, loan period, fines, hours, etc., lest this privilege be rescinded.

MARINE SCIENCES CONSORTIUM

The facilities of the New Jersey Marine Sciences Consortium, including the field stations of Sandy Hook and Seaville, are available to Montclair State students. The Consortium generally sponsors an extensive summer program of regular and independent study courses in the marine sciences at the graduate level.

MEDIA CENTER

The Center provides audio-visual materials, equipment and services for use by faculty and students for classroom instruction and presentation. The scheduling of all films for the College as well as their ordering, mailing and rental is also handled in the Center. Student aides are provided whenever the use of equipment is requested and are also available for other services. Video taping equipment is available for use by faculty and staff, as is a closed circuit television studio with its complementary equipment. Custom graphic and photographic production services exist that include slide copy, slide duplication, transparency production and graphic design. A technical shop maintains service and repairs all audio and visual equipment on campus. The staff of the Center is available for consultation on audio-visual problems, for demonstration of audio-visual materials and methods, and for special teaching and training in the area of audio-visual education.

NEW JERSEY SCHOOL OF CONSERVATION

The New Jersey School of Conservation is the Environmental Education Field Campus of Montclair State College and is the largest such facility in the western hemisphere. The School of Conservation is located fifty-seven miles from the main campus on a 240 acre tract located in the center of Stokes State Forest in Sussex County.

The programs at the School of Conservation are designed to provide the students with a greater understanding and appreciation for the role natural areas play as part of a life support system. The resident programs provide environmental field experiences in the humanities, social studies, outdoor pursuits, and the natural and physical sciences. During the 1979-80 academic year, the School provided resident environmental education programs for nine thousand elementary/secondary school students and two thousand classroom teachers. There were also approxi-

mately three hundred undergraduate students enrolled in various field courses. In addition, there are four weekend workshops held each academic year designed to train classroom teachers and youth leaders in environmental education curriculum development and field techniques for programs in environmental education. The workshops are held in September, February, May and June. Each workshop carries one semester hour of undergraduate or graduate credit. During the summer months the School offers several graduate courses for teachers and Montclair graduate students enrolled in the various tracks in the Environmental Studies area.

PSYCHO-EDUCATIONAL CENTER

The Center has been designed to train graduate and selected undergraduate students in the areas of school psychology, learning disabilities, reading, speech, audiology, student personnel services, teachers of the socially and emotionally disturbed, undergraduate areas of music and art therapies and industrial education, in the diagnosis of remediation of people with learning, language and speech problems. It additionally serves the community by offering programs that suit the mutual needs of students and clients.

ADMISSION AND MATRICULATION

To be admitted to graduate study at Montclair State College an applicant must have a baccalaureate degree from an accredited college or university in the United States, or its equivalent from a foreign institution of higher education. The applicant must also have an appropriate academic background for the program or degree desired. To be matriculated in a particular degree program, the applicant must be accepted by the department offering that program and approved by the Dean of Graduate Studies.

Applicants are evaluated on several criteria (e.g., grade point average, national test scores, recommendations, interviews, essays, portfolios, auditions, etc.) to enable the College to identify those students who demonstrate the greatest promise of scholarly achievement and ability to benefit from their proposed program of study.

Application: All students who wish to be fully matriculated in a graduate degree program at the time of initial registration must apply at least three months in advance. Applications and instructions for submission of supporting credentials may be obtained from the Office of Admissions/Graduate. The completed application must be sent to the Admissions Office/Graduate with a non-refundable fee of \$10.

Deadlines for Admission with Matriculation: Applications should be on file in the Admissions Office by July 1 for fall admission, by November 1 for admission the following spring semester, and by April 1 for admission in the summer session.

Students who miss the application deadline may, upon presentation of evidence of a bachelor's degree and upon filling out the required forms and paying required fees, be allowed to enroll for courses for one semester for six hours. Those who expect to continue enrollment must submit the appropriate credentials and supporting materials prior to the next admission deadline. Failure to submit these credentials will result in not being allowed to register in the future.

GENERAL REQUIREMENTS

Transcript: Two copies of an official transcript must be submitted from each college and university attended.

Graduate Record Examination (GRE): The GRE aptitude test is required of all students applying for admission to a degree program; some departments also require the GRE advanced test in the applicant's proposed field of study and/or the Miller Analogies Test. Students should check the department statement in this Bulletin for specific requirements.

Students should make arrangements to have an official notification of their GRE test scores sent directly to the Office of Admissions/Graduate. Since it generally takes about six weeks for test scores to reach the college, students are advised to take the required test as soon as possible after applying for admission. Information about the GRE may be obtained from the Educational Testing Service, Princeton, New Jersey 08540, or from the Office of Graduate Studies at Montclair State College.

Recommendations: Recommendations from at least two persons who are qualified to evaluate the applicant's promise of academic achievement are required for admission to all degree programs.

Statement of Objective: All students applying for admission are asked to provide a statement outlining their goals and purposes in the graduate study they wish to pursue.

Teaching Certificate: A copy of an applicant's teaching certificate(s) is required of all students seeking admission to a degree program leading to advanced certification or certification in an additional field.

Acceptance Procedure: Final action on an application cannot be taken until all supporting credentials have been received in the Office of Admissions/Graduate. However, applicants whose transcript shows conferment of a bachelor's degree will be given permission to register for not more than six semester hours on a non-degree basis.

Completed application folders are reviewed initially by the Graduate Office. Applicants who meet the College minimum standards for admission will be advised by letter to arrange a conference with the graduate advisor of the department in which the student wishes to study. The department advisor will evaluate the student's qualifications for acceptance into the program and make appropriate recommendations to the Graduate Office.

Matriculation: Students who are accepted in a degree program will be formally matriculated and given an official work program which is developed in conference with the graduate advisor with the approval of the Graduate Office. The student will receive official notification of matriculation from the Office of Graduate Studies.

Deferred Matriculation: Applicants with marginal qualifications or inadequate preparation may, upon recommendation of the department and approval of the Dean of Graduate Studies, be admitted to study on a conditional basis (deferred matriculation) with the understanding that eligibility for matriculation will be established in a manner prescribed by the department in which the student wishes to matriculate. Course work and other study undertaken to remedy the deficiency or to demonstrate the ability to do graduate-level work may be in addition to the regular program requirements.

Non-Degree Students: Individuals who have a baccalaureate degree and want to enroll for particular courses to satisfy personal interests without reference to matriculation in any degree or certification program may apply for admission as a non-degree student. Applications for this status do not require the supporting credentials specified above for degree programs, except for the transcript showing possession of a bachelor's degree and the statement of objectives.

Admission on a non-degree basis does not imply acceptance in or eligibility for matriculation in any degree.

Admission of Veterans: Veterans seeking admission to the Division of Graduate Studies should apply to the Veterans Administration for a certificate of eligibility and entitlement well in advance of the registration date. These forms may be obtained at the Veterans Administration Office at 20 Washington Place, Newark, New Jersey.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes important that the veteran clearly state his educational objectives on all appropriate forms.

To insure that his application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor.

Foreign Applicants: Foreign applicants should obtain the Application for Graduate Admission to an Educational Institution in the United States from the Office of Admissions, and return the completed form to the office at least one month prior to the normal deadline.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants, for whom English is not a native language, to take the Test of English as a Foreign Language, administered world-wide by the Educational Testing Service of Princeton, New Jersey. Scores from this test should reach the Office of Admissions no later than the normal deadline.

Qualified Seniors: Montclair State College undergraduates with an academic average of at least 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work at the 500 level, if prior permission is granted.

In order to be eligible to take graduate courses, a qualified senior must

complete the appropriate application, which is available in the Graduate Office. Qualified undergraduates taking graduate courses for graduate credit must pay appropriate fees and tuition at the regular graduate student rates. Admission of an undergraduate to courses at the graduate level does not imply future acceptance into a graduate degree program.

Visiting Students: Graduate students matriculated at another college may register for courses during In-Person Registration. They must bring with them a form or letter of permission from the institution they are attending stating they are students in good standing.

ACADEMIC POLICIES AND REGULATIONS

Course Load: Twelve semester hours constitutes a full-time course load. The Division of Graduate Studies recommends that the part-time student who is fully employed take no more than six semester hours of course work in any one semester.

Course Numbering and Scheduling: Selected courses numbered from 400 through 499 are senior-graduate courses. They may be taken for graduate credit only with the permission of the Graduate Advisor in the student's major department and only to the extent approved by regulations of the Division of Graduate Studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be numbered from 400 through 499. Courses numbered below 400 are not acceptable for graduate credit.

Courses numbered 500 and above are open only to graduate students; they are scheduled in the late afternoon and evening during the fall and spring semesters. Summer session graduate courses are scheduled both in the day and evening.

Restrictions for Graduate Credit: No credit is granted toward the Master of Arts degree for certain 400 level courses which are required for initial certification.

Courses taken ten or more years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree, except upon recommendation by the major department and approval of the Dean of Graduate Studies.

No more than six semester hours of credit may be allowed for courses completed at Montclair State College prior to matriculation for the Master's degree, except in specially designated programs.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the Dean of Graduate Studies. A form for this purpose is available in the Graduate Office and should be completed well before the transfer credit is needed.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that no course undertaken for graduate credit duplicates a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title.

Transfer Credit: A student may transfer six semester hours of graduate credit earned at an accredited college or university toward the Master of Arts degree at Montclair State College, provided the student obtains approval from the departmental Graduate Advisor and the Dean of Graduate Studies. This approval must be noted on the student's work program. Grades below B are not accepted for transfer credit, nor are courses below graduate level in the originating institution.

Time Limit: Requirements for the Master of Arts degree must be completed within six years from the date of matriculation unless the Dean of Graduate Studies approves an extension. Written applications for extension will be reviewed and evaluated by the Graduate Dean on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of application.

Grades and Standards: There are eight grades used at Montclair State College:

A—Excellent
B—Good
C—Fair
D—Poor

F—Failure
INC—Incomplete
WD—Withdrew
NC—No Credit

No graduate credit is allowed for courses completed with grades below C. In order to qualify for the Master of Arts degree a student must present a grade point average of 3.00 (B). Students may repeat a grade of D or F with written approval of the Dean of Graduate Studies.

The grade of F signifies: (1) academic failure, (2) failure of the student to submit written notice of withdrawal, or (3) withdrawal after the mid-point in the semester. The mark WD is given to those who submit in writing to the Office of the Registrar their intention of withdrawing from a course before the midpoint of the semester.

The mark INC indicates that a student was unable to complete the course work by the end of the semester because of illness or other exceptional circumstance. Course work for INC grades received in the fall semester must be completed by May 1; work for spring and summer INC grades must be completed by December 1. Failure of the student to complete the assigned course work by the given date will result in a final grade of F. Deadlines are adjusted for courses which meet for more or less than a full semester.

Any matriculated student whose grades fall below the required B average will be placed on academic probation and will be given one semester, within one year from date of first notification of probationary status, to achieve the required average. Failure to obtain the required average within the prescribed period of time leads to final review which may result in the termination of matriculated status. Notice of such action will be sent to the student by the Dean of Graduate Studies after consultation with the departmental graduate advisor. A student may appeal such

action in writing to the Dean of Graduate Studies.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

Registration Procedure: All graduate students who were registered at Montclair State College during a semester will receive registration materials for the next semester allowing them to register for the following semester by mail. New students who apply after the cut-off date for mail registration, or students not registered in the previous semester, must register in person.

Details about registration procedures and deadlines may be obtained from the Office of the Registrar, or from the Schedule of Courses book in which all current regulations and procedures are described.

GRADUATION REQUIREMENTS

Program of Study: A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be required to satisfy prerequisites or special programmatic purposes.

Each student must pass a comprehensive examination in his/her field, either oral or written, or both.

Candidates are also required to demonstrate their ability to execute and report on an independent research project or other creative production. This requirement may be satisfied in one of several ways: (1) a project report written in connection with a required departmental seminar, (2) a Master's Thesis, or (3) the production of a creative project in the fine and performing arts or humanities. The option selected must have departmental approval.

A department may accept the Master's thesis as equivalent to a required seminar and/or in lieu of all or part of the comprehensive examination.

Thesis: Those interested in writing a thesis must obtain the MSC Thesis Guidelines from the Graduate Office or their major department, and consult the graduate advisor before beginning any part of the process. Students are responsible for following these guidelines in selecting an advisor and a topic, registering, completing and typing the thesis, defending and applying for graduation. Form A—Approval for Writing a Master's Thesis must be signed by all parties concerned and the appropriate section turned in at the initial registration for thesis. **THERE WILL BE NO REGISTRATION FOR THESIS OR THESIS EXTENSION WITHOUT WRITTEN PERMISSION.**

Comprehensive Examination: The Comprehensive examination is open only to matriculated students and is usually administered once in October and once in March. Students should check with their departmental graduate advisor to determine the date and time of the examination.

It is the student's responsibility to file the "Notification for Comprehensive Examination" form with the Graduate Office and the appropriate department at the beginning of the semester the examination is to

take place. The form is available in the Graduate Office.

People who fail the departmental comprehensive examination are allowed to retake it twice but must reapply each time as described above.

Application for Final Evaluation: Individuals anticipating completion of their degree and/or post-baccalaureate certification requirements must apply to have their eligibility for the conferment of the degree or certificate evaluated by the Office of the Registrar. The application form is obtained in the Registrar's Office; it must be completed and returned by March 1 for August conferment, by June 1 for January conferment, and by October 1 for June conferment.

Students must complete all requirements (incompletes, comprehensive examinations, thesis, required courses and electives, etc.) for the degree by the appropriate graduation date (i.e., June 1, August 31, or January 31). If not completed, students must reapply for graduation the following semester.

Commencement and Diplomas: Commencement exercises are usually held once a year, at the end of May. August, January and June graduates are all encouraged to take part in the ceremony. Diplomas are not presented at that time, however, because all of the necessary processing is unfinished. All who have completed the required work and fulfilled all college obligations by graduation date may pick up their diplomas and certificates, if applicable, in the Registrar's Office.



TUITION AND FEES*

Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree, per semester hour of credit	
(in state)	\$50.00
(out of state)	\$70.00

Fees (Non-refundable)

Student Building fee, paid each time a student registers	4.70
per semester hour to a maximum of	56.40
General Service fee, paid each time a student registers	
per semester hour	1.50
Late registration fee, for all students who register after the regular registration period	15.00
Change of Class Schedule fee, for students who after their initial registration each semester, make a change or changes in their original class schedule other than withdrawal from a course.	
Each course	5.00

Application Fee (Non-refundable)

Each application for admission must be accompanied by a application fee of	10.00
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Transcript Fee (Non-refundable)

For each copy of a student's transcript	2.00
Inquiries about procedures for requesting transcripts should be directed to the Registrar.	

Payment Instructions

All checks should be made payable to: Montclair State College

Refunding of Tuition

Refunds are made under circumstances detailed below if a student officially withdraws from a class by filing a written notification with the Office of the Registrar.**

The following schedule of refunds has been established by the New Jersey state colleges:

Period of Withdrawal	Percent Refunded
Before courses begin	100%
During first third of course	50%
After first third of course	None

The percentage of refund is based on the total obligation. Tuition and service charges are refunded in full if classes are discontinued by the College.

In computing refunds, the date of withdrawal is the date on which the written notice of withdrawal is received in the Office of the Registrar.

*Subject to change at any time by action of the New Jersey Board of Higher Education.

**Ordinarily a minimum of 8 weeks should be allowed.

THE SCHEDULE OF COURSES BOOK HAS THE CURRENT FEES FOR ANY GIVEN SEMESTER. FEES ARE SUBJECT TO CHANGE.

FINANCIAL AID

Several kinds of financial aids are available to graduate students who meet all entrance requirements. Some of these aids provide an opportunity for desirable professional experience as well. Conditions for assistantships, loans and other aids are subject to change.

Graduate Assistantships: Graduate Assistants are expected to contribute an average of 15 hours per week during a 10 month academic year covering September 1 to June 30th. They should be given teaching assignments or other duties which are directly associated with their department's educational responsibilities.

A stipend of \$3,000 plus waiver of all college-wide fees and tuition waiver for all graduate level courses required to complete individual degree programs are included as part of the assistantship. During the academic year following the assistantship, tuition waiver and college-wide fee waiver are also included for the number of semesters equal to the number of semesters served as a Graduate Assistant. Graduate Assistants are defined as fulltime students if registered for at least 6 semester hours. The Registrar is authorized to certify this fulltime status. Therefore, Graduate Assistants may not accept fulltime employment during the period of their assistantship and may not register for more than 12 s.h. per semester without written approval of the Dean of Graduate Studies. For applications, contact the Graduate Office. The usual Graduate Assistant due date is April 24.

Resident Assistantships: Opportunities are available to graduate students with counseling, human services, guidance and other social science major to work as resident interns or assistant managers in the college dormitories. Interns serve as directors of small residence halls for 100 undergraduate students from June 15 to June 15 of the following year.

There is a \$3,000 stipend plus room and board for the year. Tuition and college wide fees are also waived for the year of internship and the following year. Assistant managers serve in large dormitories under a Resident of Directors and supervise 6-8 undergraduate residence assistants. The stipend is approximately \$1,400 per year, plus room and board with extra pay for summer. Application deadline for assistant managers is January 31 of the year of the appointment. For information and applications, please apply to the Director of Housing.

Equal Opportunity Fund Grant & Assistantships (EOF): Residents of New Jersey who received undergraduate EOF grants, or who were qualified for EOF but did not attend undergraduate colleges with EOF programs, may apply for EOF grants and assistantships. Those interested should contact the Director of the EOF graduate program (201-893-4384).

The following programs are administered by the Financial Aids Office. All inquiries should be directed to them at 893-4461.

New Jersey State Student Loan: Loans may be made by participating banking or savings and loan institutions and are guaranteed by the New Jersey Education Assistance Authority. A list of participants may be obtained from the Authority or the Financial Aids Office. The maximum amount of such loans is limited to \$5,000 annually for graduate students. There is no interest charged while attending MSC, but it is charged beginning nine months after termination of attendance.

National Direct Student Loans: American citizens, legally resident aliens and those who have filed initial citizenship papers and are fulltime students at MSC are eligible to apply. The amount of the loan is determined by the availability of funds and the need of the students. Interest (3%) and repayment begins nine months after the student ends fulltime study; repayment is to be complete within ten years from that date. There is a forgiveness feature at present for teacher of the handicapped, teachers employed in low-income areas and Head Start Programs whose schools qualify.

Work-Study: Graduate students as well as undergraduates may apply for part-time jobs in the college at an hourly rate under the federal work-study program. Students must demonstrate financial need, and the hiring department must have sufficient funds.

International Student (Non-Resident Tuition Waiver): A remission of non-residential tuition can be made to students from other countries who demonstrate financial need. (There is a state mandated limit to the number of remissions allowed). Those interested should apply at least 60 days prior to the beginning of the semester a waiver is desired. Applications must be made each semester to the International Student advisor in the Dean of Students Office.

Part-time Employment: While jobs can never be guaranteed, there are numerous opportunities for after school, weekend and vacation employment available through the Career Services Office. 893-5229.

Scholarship: The Charles Bargerstock Memorial Scholarship established in memory of the founder of Career Services Office, offers a stipend of \$500 to a graduate student in counseling, human services and guidance who desires to become a competent career counselor and placement officer, and will work ten hours weekly in the office during the academic year. For information, contact the Career Services Office.

Veterans Benefits: Those who believe they qualify for veterans benefits should see the Veteran's Assistant in the Dean of Students Office for all necessary information and application. 893-4118.

Note: GAPSFAS (Graduate and Professional School Financial Aids Service) financial information forms are used and available at the Montclair State College Financial Aids Office.



STUDENT SERVICES

Alumni Association: Graduates of MSC are members of the Alumni Association. Each year the Association Executive Board and the alumni director plan a schedule of activities. The Association also sponsors student research projects and faculty research grants, and conducts fund raising activities to support selected college projects. The Alumni House is at 34 Normal Avenue, across from the college. 893-4141.

Bank: A branch of the Pilgrim State Bank is located on the ground floor of the Student Center. There is no charge for checking accounts over \$300.00

Bookstore: Located on the ground floor of the Student Center, textbooks, paperbacks, greeting cards, clothing, office supplies and other items are sold here. Hours change each semester. Purses, brief cases and tote bags are not permitted inside the store. These items may be left in lockers located near the store. A quarter is needed to lock it; this coin is returned when the locker is legally opened.

Career Services and Placement: There are two offices at MSC that assist students in developing careers. Educational Placement is described on page 226. The Career Center (Life Hall) provides resource information and advising as well as seminars on job search and interview processes for students and alumni. Other services include career counseling, library materials, graduate school catalogs, newsletters, a credential service, on-campus recruitment and employment (full and part-time) referrals. 893-5194.

Counseling: The Drop-in Center provides peer counseling 24 hours a day, as well as round-the-clock referrals to on and off-campus facilities. A policy of strict confidentiality is observed. The Center is staffed by an average of 20 students who serve on a volunteer basis. This staff is trained in Rogerian creative-listening technique and is familiar with the many resource materials which the Center has accumulated during its five years on campus. The Drop-in Center is located between the Student Center and the Mathematics/Science Building. The telephone number is 893-5271.

The Office of Psychological Service with its staff of trained psychologists is available for students seeking professional assistance. Students will be given an initial interview and referred to community agencies as appropriate. The office is located in Annex E, telephone 893-5215.

Cultural Opportunities: A number of significant series of cultural events add to the pleasantness and interest of life on the campus. The Department of Speech and Theater presents several plays each semester, and, in

the spring, a major student dance concert. The Department of Fine Arts and the Office of Cultural Programming together operate a gallery (which will move to new quarters in the fall of 1980) whose exhibits are generally changed monthly. Distinguished artists visit the campus to talk about their work at the art department's Art Forum which takes place on most Thursday afternoons during the semester. The Music Department offers an extensive series of faculty and student concerts. The Office of Cultural Programming brings to the campus performers like Emelyn Williams and Alvin Ailey.

During the summer, SummerFun, the college's professional season stock company offers six plays, each running one week.

Further Graduate Study: Students interested in attending a university for study toward a doctoral degree may find catalogs in both Career Services (Life Hall) and the Graduate Office (College Hall). The latter has also national guidebooks on graduate programs, information on scholarships and GRE/GMAT applications. Departmental advisors should also be contacted for assistance, since each discipline has its own way of proceeding.

Health Services: A registered nurse is on duty in the College Health Center twenty-four hours a day, Monday through Friday. Emergency medical care is also available. Regular office hours are from 8 a.m. to 4 p.m. After 4 p.m. the office is open for emergencies only. Telephone 893-4361.

Housing: Limited on-campus housing at Clove Road apartments is available to graduate assistants. The Housing Office will provide students with handbooks, maps and names of listing agencies in the area; it also posts ads from home owners in the area who have rooms to rent. The Housing Office is located in Bohn Hall and is open daily from 8:30 a.m. to 4:30 p.m. For information, call 893-4155.

I.D.: All students, faculty and staff are required to have a College-issued photographic Identification Card. This card must be shown to withdraw books from the Library, to obtain access to the Student Center Rathskeller and to participate in various activities sponsored by the Student Government Association.

All students currently holding an I.D. card will receive a validation sticker with their Class Schedule and their tuition payment receipt each semester. New students will be informed about procedures for obtaining their I.D. card at registration.

Insurance: At low-cost, medical expense insurance is available to all students at MSC, whether full or part-time. Many courses that offer off-campus activity, such as practicum or internship (but not student teaching) require this (or other personal) coverage. Check with the department before registering to ascertain if coverage is needed. If needed or desired, arrangements can be made through the Dean of Student's Office. 893-4311.

Parking: The College maintains several parking lots for use by students. These are designated on all campus maps. The College assumes no responsibility for cars or their contents while parked on College property. Parking decals, available in the Business Services Office in College Hall,

must be displayed on all cars parked on Campus. Shuttle buses are available to bring people to and from parking lots and classroom buildings.

Students who fail to obey parking rules may receive both municipal and college summons.

Religious Facilities and Programs: The Newman House, 894 Valley Road, is associated with the Catholic Church but is open to students of all religions. A lounge and library are available for students and faculty and a liturgy is celebrated daily.

The Jewish Student Union is located on the first floor of Life Hall. The Montclair Protestant Foundation is located in the Student Center. These groups sponsor and often co-sponsor events of an artistic, intellectual, social or theological nature. The chaplains share an office in the Student Center and are available for counseling.

Security and Safety: Assistance is provided by the Campus Police and Security Department in several ways: protection, information and advice. Emergency telephones (grey boxes with blue decals) are available around campus to use. In case of fire or life-threatening emergency, dial 4111. For other assistance, call 5222.

Some of the services offered to students by the Campus Police and Security Department are: information on rape and crime prevention, services to motorists (keys locked in car, stalled or disabled vehicle, flat tires), and temporary parking permits (emergencies, temporary use of replacement vehicle, guests on campus, temporary overnight or disabled parking).

Student Center and Dining Facilities: Located near the Quarry parking lots, the Center contains the bookstore, candy shop, bank, information desk, a game room, and dining facilities.

There are three dining options in the evening: the cafeteria, the Rathskeller which serves beer and wine as well as food, and the vending machines which provide sandwiches and cold snacks. A current MSC student ID card is required for admission to the Rathskeller. The Student Center is open when classes are in session throughout the academic year; during examination time and over holidays, modified hours will be posted.

Transcripts: Those desiring transcripts should complete a written request on a form available only through the MSC Registrar's Office. (It will be sent by mail on request.) A fee of \$2 per copy is payable in advance. If five or more copies are desired at the same time, the fee shall be \$10.

Women's Center: The Women's Center is located, at present, in the Math/Science Building. It provides individual and group counseling, workshops in various areas of concern to women and men, and a Wednesday noon discussion series. Women Helping Women, a group of students/staff/faculty trained as peer counselors, offer rap groups, red-tape unraveling sessions and counseling during the day and in the evening.

The Center contains a library and reference files open to all who can benefit from their use. 893-5106.

ADULT CONTINUING EDUCATION

Director: Mr. Raymond Ast

The faculty in Adult Continuing Education provides program services to students, volunteer groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey and the nation. The programs offer direct service to community education development efforts for adult educators, training programs for industrial and institutional employee career mobility, adult basic education and high school completion programs, continuing education unit technical assistance, and selected contractual consultant and service assistance. The Department utilizes College and community resources in the development of programs serving older adults, as well as development of pre-retirement planning programs. Information dissemination of adult basic, secondary and continuing education, community education, and gerontological materials and resources is made available. Graduate credit courses are offered in adult and community education for individuals entering the field or seeking professional advancement.

ADULT CONTINUING EDUCATION

Course Descriptions

A 0807 550 PHILOSOPHIC PERSPECTIVES: ADULT CONTINUING EDUCATION IN THE UNITED STATES 3 sh

An examination of selective philosophic assumptions as well as social/cultural/political influences affecting the formats/systems and processes underlying programs of continuing education for adults in the United States.

A 0807 551 HISTORIC PERSPECTIVES: THE DEVELOPMENT OF ADULT CONTINUING EDUCATION IN THE UNITED STATES 3 sh

An examination of the theories, forces and events affecting origins and developments of adult continuing education movements in the United States.

A 0807 552 COMMUNITY EDUCATION PROGRAM PLANNING AND DEVELOPMENT IN HUMAN SERVICES 3 sh

A course designed to provide experiences for the student to translate the social, physical, intellectual, and psychological patterns and needs of learners into learning objectives applicable to program development in a community. There will be a special focus on adult learners but every level will be considered. Curricular materials and techniques will be developed and applied to the individualized programs of the various community and educational agencies involved in human services.

A 0807 553 ADMINISTRATION AND SUPERVISION OF ADULT CONTINUING EDUCATION 3 sh

Considers the various administrative and supervisory roles in directing programs in adult continuing education. Particular attention will be given to an analysis and application of the technical, human relation and conceptual skills of administration to problems identified in adult continuing education.

A 0807 555 TRAINING AND DEVELOPMENT IN ADULT AND COMMUNITY ORGANIZATIONS 3 sh

Application of principles and processes of adult education to large and small organizations, public and private, as they relate to both personal and corporate objectives. Programs in government, the armed forces, business, industry, labor and religious organizations will be examined.

A 0807 556 ORGANIZATION AND DEVELOPMENT OF A COMMUNITY EDUCATION PROGRAM 3 sh

Designed to develop an awareness of the community education concept and to provide skills and strategies for educational and community leaders in promoting and implementing community education.

A 0807 580 COMMUNITY EDUCATION: SEMINAR AND INTERNSHIP 3 sh

A seminar and internship designed to provide exceptional administrative and leadership experiences in community education to students selected to participate as center interns at Montclair's Community Education Center.

Prerequisite: Permission from director.

A 0807 581 COMMUNITY EDUCATION:INDEPENDENT STUDY 3 sh

This course is designed to provide to graduate students an opportunity to increase their professional competence through a community education research project developing from their own need or problem area. Custom-designed in consultation with the community education director, it brings an understanding and/or possible recommendations and solutions.

**A 0807 583 COMMUNITY EDUCATION: GRADUATE
ORIENTATION PROGRAM**

3 sh

To increase the student's professional competence, as a community educator through the development of his/her knowledge and understandings of current practices in the field of community education.

Prerequisite: Graduate student status.

**A 0807 584 SPECIAL ISSUES: ADULT CONTINUING
COMMUNITY EDUCATION: GERONTOLOGY**

1-3 sh

Practitioners in Gerontology, workshops in Adult Education & Community Ed. A focus on cooperation, shared resources and funding for human services organizations. Workshop series specifically designed to examine theories & practices in field of adult continuing & community education. Expressed needs in the field are bases for topical selection and specific workshop designs.

**A 0807 650 INTERDISCIPLINARY SEMINAR IN ADULT
CONTINUING EDUCATION**

3 sh

Problem areas considered include values, communications, personality, perception, and organization. With problems basic to adult continuing education as its focus, the seminar brings together in a systematic fashion the pertinent knowledge, learnings, skills of appropriate related disciplines such as psychology, anthropology, economics, political science, sociology, and the humanities.

**A 0807 651 INDEPENDENT STUDY IN ADULT
CONTINUING EDUCATION**

3 sh

Designed for individuals who, in consultation with an advisor, wish to undertake either an indepth analysis of a specific problem, or to design and implement a particular project in adult continuing education.



BIOLOGY

Department chairperson: Dr. Anna C. Pai

Graduate Advisor: Dr. Lawrence Cribben

The graduate programs in the biology department are designed to enable a student to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

ADMISSION REQUIREMENTS

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject matter of at least twenty-four semester hours in biology and have adequate preparation in college chemistry, mathematics and physics.

In cases where there has been a weak undergraduate program in the major and/or collateral fields, prerequisite courses, which will not count towards graduate credit, may be assigned.

Research facilities of the Biology Department are maintained in Mallory and Finley Halls and include specialized equipment for electron microscopy, botany, microbiology, immunology, aquatic biology, tissue culture, animal behavior and cell physiology. Additionally, the facilities at the New Jersey Marine Sciences Consortium, and other departments in the School of Math and Science are available for cooperative graduate research. Faculty research on toxicological and environmental problems has been supported by funding from EPA, DEP and NJMSC. Other areas of research interest include developmental biology, parasitology, entomology, immunology and cell physiology. Student research publications are encouraged through annual Sigma Xi seminars, meetings and symposia of professional societies and journals in specialized areas.

The Biology Department offers students opportunity for graduate research (Master's Thesis) under faculty supervision in selected areas of specialization (not to exceed 8 s.h.). Alternatively, students may choose to fulfill requirements for the M.A. degree by completing a total of 32 s.h. in course work. Two elective courses (usually 6 s.h.) from graduate level courses in related fields may be selected with the approval of the graduate advisor.

The matriculation program for M.A. candidates is prepared in consultation with the Biology graduate advisor. Changes in the program can be made only with the written approval of the graduate advisor. It is the responsibility of the student to keep the advisor informed of progress in the program.

M.A. candidates must complete a minimum of 20 s.h. within the Biology Department at the Upper Montclair campus as part of the requirements for completion of the M.A. degree as follows:

I. Specialization	26 sh
Research Requirements	
(1) M.A. Thesis	credit by arrangement
(2) 0401 514 Departmental Seminar	1-3 sh
II. Electives	3 sh
III. Comprehensive Examination	

Minimum: 32 semester hours

BIOLOGY

Course Descriptions

Q 0401 510 THE TEACHING OF BIOLOGY IN SECONDARY SCHOOLS 3 sh

Seminar and research course designed for study of methods and practices being used in teaching of secondary school biology.

Q 0401 512 ADVANCED GENETICS 3 sh

Seminar course. Genetics of microorganisms, molecular genetics, developmental genetics, non-nuclear genetic phenomena.

Prerequisites: 0401 412 and 1905 0470

Q 0401 513 INSTRUMENTATION AND TECHNIQUES FOR BIOLOGICAL SCIENCE 4 sh

This course is designed to acquaint students with modern analytical and research techniques in biology, including manometry, spectrophotometry, electrophoresis, chromatography, microbial batch growth and assay techniques, immunotechniques and evaluation of experimental design and data. Prerequisite: Courses in similar field.

Q 0401 514 GRADUATE SEMINAR IN BIOLOGY 3 sh

Seminar students will investigate and discuss environmental problems reported in recent scientific publications.

Prerequisites: Matriculation for M.A. Degree in Biology or permission of instructor. Comprehensive examination for the master's degree in biology will be based on this course.

Q 0401 515 RADIATION BIOLOGY 3 sh

The biologic effects of ionizing radiations.

Prerequisite: 20 credits of biology. One year of physics recommended and 1905 230/231 organic chemistry I and II.

Q 0401 516 BIOGEOGRAPHY 3 sh

Distribution of plants and animals of the world on continents and continental and oceanic islands and in various climatic zones.

Prerequisites: 8 semester hours botany, 8 semester hours zoology, including vertebrate zoology, 3 semester hours physical geography.

Q 0401 517 SYMBIOSIS**3 sh**

A Multidisciplinary study of interactions between dissimilar organisms which live in close association with each other, and the evolutionary implications of such symbioses.

Prerequisites: 12 s.h. in biology.

Q 0401 520 PLANT PHYSIOLOGY**4 sh**

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Water relations of plants, mineral nutrition, physiological significance of soil and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

Prerequisites: organic chemistry, general biology, instructor's permission, for majors only.

Q 0401 521 FIELD STUDIES OF FLOWERING PLANTS**4 sh**

The taxonomy, evolutionary trends and ecological adaptations of the gymnosperms and angiosperms. A variety of habitats will be visited and analyzed.

Prerequisites: One year botany and field experience in ecology.

Q 0401 522 PLANT PATHOLOGY**3 sh**

Causes, symptoms, impact on man's food supply and control of plant diseases.

Prerequisites: Microbiology, one year of botany, and instructor's permission.

Q 0401 523 MYCOLOGY**3 sh**

Identification, classification of fungi and their place in the ecosystem.

Prerequisites: Microbiology, one year of botany, or instructor's permission.

Q 0401 530 ANIMAL BEHAVIOR**4 sh**

Patterns and mechanisms of behavioral adaptations to stimuli from the internal and external environments. Topics include concepts in psychobiology and sociobiology.

Prerequisites: 16 sh in zoology or permission of instructor.

Q 0401 531 MEDICAL PARASITOLOGY**4 sh**

The ecology, pathology and control of parasitic diseases of man.

Q 0401 532 INSECT ECOLOGY AND BEHAVIOR**3 sh**

This course considers (1) the relationship of insects to their environment, (2) insect populations, (3) insect behavior.

Prerequisite: 0401 431

Q 0401 543 COMPARATIVE IMMUNOLOGY**3 sh**

The phylogeny and investigation of immune defense mechanisms.

Prerequisites: 24 hours in biology; immunology, 8 hours of chemistry, or permission of the instructor.

Q 0401 544 COMPARATIVE ANIMAL PHYSIOLOGY 4 sh

The physiological mechanisms involved in the varied responses of both vertebrates and invertebrates to critical fluctuations of their physiochemical environment.

Prerequisites: Cell biology, general physiology, 1 year zoology — 24 hours in biology.

Q 0401 545 EXPERIMENTAL ENDOCRINOLOGY 3 sh

A seminar and laboratory course in endocrinology in which the various endocrine glands will be surgically removed or chemically destroyed and the morphologic and physiologic effects measured and observed. Prerequisites: 0401 103, 446 or human physiology. 24 hours in biology.

Q 0401 547 MOLECULAR BIOLOGY I: LECTURE ONLY 3 sh

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer of genetic information. Prerequisites: 0401 140, 1905 230 and 231.

Q 0401 548 MOLECULAR BIOLOGY II: LABORATORY EMPHASIS 4 sh

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer genetic information. The laboratory will deal with up to date investigative procedures via selected experiments. Prerequisites: 0401 547

Q 0401 549 TOPICS IN DEVELOPMENTAL BIOLOGY 3 sh

Seminar in the regulation of developmental events, including both classical morphogenesis and recent advances using techniques of cell and molecular biology.

Prerequisites: Genetics, and comparative vertebrate embryology.

Q 0401 550 TOPICS IN MICROBIOLOGY 4 sh

Selected topics in microbiology of special interest from both theoretical and technological point of view, such as, microbial metabolism, microbial cell-free systems, genetics, antibiotic action, bacteriophage, virus and cancer, etc.

Prerequisites: General microbiology, organic chemistry, cell biology. Also desirable — molecular biology and bacterial physiology.

Q 0401 551 INTERMEDIARY METABOLISM I 2 sh

Discussion of interrelationships of catabolic and anabolic paths.

Prerequisites: 1 year organic chemistry, 1 year biology, biochemistry or cell physiology or equivalent.

Q 0401 552 INTERMEDIARY METABOLISM II **2 sh**

Biological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics.

Prerequisite: 0401 551 or equivalent.

Q 0401 553 MICROBIAL ECOLOGY **4 sh**

Exploration of the essential role of microorganisms in the eco-system. Lecture, field trips and laboratory will demonstrate the ubiquitous and highly adaptive evolution of microorganisms, their inter-relationships and their profound influence on the bio-sphere.

Prerequisites: General botany, general chemistry, elementary microbiology or mycology.

Q 0401 570 ECOLOGY **3 sh**

Basic ecological principles and concepts. Habitat approach to field exercises in fresh water and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem problems in plant and animal biology and appropriate research in the field and library.

Prerequisites: General botany, general zoology, plant taxonomy or equivalent, some physical science.

Q 0401 571 PHYSIOLOGICAL PLANT ECOLOGY **4 sh**

Field and laboratory studies including methods of vegetation analysis with emphasis on autoecological techniques.

Prerequisites: 0401 370 and 426, instructor's permission.

Q 0401 572 ECOLOGY OF THE ESTUARY **4 sh**

Important biotic, chemical and physical parameters of New Jersey's estuaries. Evolution and successional trends of estuarine communities. Ecology of individual communities studied by field trips to Delaware Bay shore and to some Atlantic coast bays, marshes and offshore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisite: Invertebrate zoology, plant kingdom, one year of chemistry, or permission of the instructor.

Q 0401 573 BENTHIC ECOLOGY **4 sh**

Community structure, trophic dynamics, species diversity and distribution of bottom dwelling organisms in relationship to their environment, lectures, laboratory work and field investigations of the marine benthos.

Prerequisite: Invertebrate zoology, plant kingdom, degree in biology or consent of the instructor.

Q 0401 595 GRADUATE RESEARCH IN BIOLOGY **1-4 sh**

Under the guidance of a faculty sponsor, students will investigate individual research problems of appropriate scope. Research which is not original may be approved but must be of a calibre to warrant graduate research standards.

Prerequisite: Matriculation in Biology MA program.

Q 0401 600 THESIS RESEARCH IN BIOLOGY**3-7 sh**

This course is designed to encourage supervised graduate research in a well-defined area of Biology.

Prerequisites: Approval of department chairman and graduate advisor, as well as faculty sponsor who will supervise research.

**Q 0499 505 BACTERIOLOGICAL TECHNIQUES IN
MARINE SAMPLING**
2 sh

Standard methods of bacteriological water analysis, including MPN and membrane filtration. Special problems to sampling and analysis of marine sediments, surface and subsurface marine waters.

Prerequisite: General biology, general chemistry, microbiology

The following Senior-Graduate courses may be elected with the permission of the Graduate Advisor:

0401 408	Ultrastructural Interpretation	3
0401 410	Biological Science Demonstrations	4
0401 411	Introduction to Electron Microscopy	4
0401 412	Genetics	4
0401 416	Modern Biology I and II	4 each
0401 417	Evolution and Systematics	3
0401 420	Economic Botany	3
0401 424	Morphology of Flowering Plants	4
0401 425	Elementary Plant Physiology	4
0401 426	New Jersey Flora	4
0401 430	Field Ornithology	3
0401 431	Entomology	3
0401 432	Medical Entomology	2
0401 440	Mammalian Anatomy and Histology	4
0401 441	Comparative Anatomy of the Vertebrates	4
0401 422	Human Physiology	4
0401 443	Comparative Vertebrate Embryology	4
0401 444	Cell Physiology	5
0401 445	Immunology	3
0401 446	Endocrinology	3
0401 451	Bacterial Physiology	4
0401 460	Biological Oceanography	3
0401 461	Limnology	3
0401 467	Biology of the Fishes	4
0499 404	Plant and Animal Histological Techniques	3
0499 405	Cell Culture	3

1999 422	Biology of Marine Plankton	4
1999 431	Marine Invertebrate Zoology	4
1999 433	Seashore Ornithology	2
1999 438	Seashore Entomology	2
1999 450	Marine Botany	4
1999 460	Advanced Marine Biology	4
1999 490	Field Methods in Oceanography and Marine Biology	1
1999 491	Techniques in Plankton Sampling and Analysis	1
1999 494	Primary Production of the Marine Environment: Techniques and Measurements	1



BUSINESS ADMINISTRATION

Graduate Advisor: Dr. Alan Oppenheim

The M.B.A. program is a program designed largely for part-time students with liberal arts, scientific, or professional backgrounds. Prior work experience is not required, but is strongly recommended for all applicants.

The curriculum stresses the theoretical bases of management disciplines, as well as practical applications of theory and current management practices. As organizations and the technologies they employ become increasingly complex, management education must remain practical but sufficiently based on scientific evidence to provide a foundation for subsequent, systematic learning by the future manager.

The goal of the program is to produce management generalists who are also skilled in one or more specific functional areas. In general, the M.B.A. seeks to impart the knowledge, skills, and attitudes that help managers understand and assess management situations and problems, evaluate options in the light of their consequences to the system and the larger environment, select a course of action, and implement a solution. Students are encouraged to think broadly of their tasks and their functions.

Students whose concentrations and electives are directed toward the not-for-profit sector will find appropriate course offerings built into the M.B.A. program.

ADMISSION REQUIREMENTS

Applicants are required to present for consideration the following information:

- 2 copies of an official transcript from each college and university attended.

- 2 recommendations from those qualified to evaluate applicant's promise of academic achievement and professional growth potential.

- a statement of professional objectives and GMAT (Graduate Management Aptitude Test) scores.

CURRICULUM

The curriculum of the regular M.B.A. program consists of 63 semester credit hours, approximately half of which (33 hours) are devoted to a common body of knowledge required of all graduates. This is the core. The other half (24 hours) is divided into two approximately equal parts, one devoted to an area of concentration, and the other to distribution over a range of management-related subjects, and an integrating course (6 credits) comprised of either a thesis or a management game.

ADVANCED STANDING

The 63 s.h. requirement for the MBA may be reduced by a maximum of 30 sh through background, challenge examinations, and/or graduate level transfer credits not previously applied to another degree. However, a minimum of 33 sh must be completed at MSC.

NOTE: NO MORE THAN 30 SEMESTER HOURS TOTAL
MAY BE USED TO REDUCE THE 63 HOURS
REQUIRED FOR THE MBA DEGREE.

REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION

I. Core Curriculum			33 sh Prerequisites		
2204	501	Economics of the Firm	3		
2204	505	Aggregate Economics	3		
0501	501	Fundamentals of Management	3		
0501	502	Behavior in Organizations	3	0501	501
0502	501	Financial Accounting	3		
0502	502	Managerial Accounting	3	2204	501
				0502	501
				0503	501
0503	501	Statistical Methods	3		
0503	502	Operations Research	3	0503	501
0503	503	Information Systems	3	0502	502
0504	501	Corporate Financial Management	3	0502	501
0509	501	Fundamentals of Marketing	3		
II. Integrating Courses (Required)			6 sh		
0506	561	Thesis	6	Completion of all but 6 s.h. of course- work	
		or			
0506	562	Management Game	6		
III. Concentrations			9 sh		

All students are required to complete one area of concentration, normally chosen from one of the following specific fields:

- Accounting
- Business Economics
- Finance
- Management/Organizational Behavior
- Marketing
- Quantitative Analysis

In addition, a co-concentration in International Business will be available to students who carefully plan their program. The student's concentration consists of three courses in addition to core courses in the selected field. With the consent of a sponsoring faculty member and the Committee on Instruction, prior to registration for the Fall semester of the second year, students may design a concentration of their own choosing. Courses available for each field of concentration are listed below.

Course No.	Course Title	sh	Prerequisites
Accounting Courses			
0502 520	Contemporary Issues in Financial Acctg. I	3	0502 501
0502 521	Contemporary Issues in Financial Acctg. II	3	0502 520
0502 522	Accounting for Decision Making Control (sections available with emphasis on public service organizations)	3	0502 502
0502 523	Accounting for Business Combinations	3	0502 502
0502 524	Auditing Theory, Concepts & Practices	3	0502 520
0502 525	Fundamentals of Federal Taxation	3	0502 501
Business Economics Courses			
2204 542	Economic Fluctuations & Forecasting	3	2204 505
2204 502	Financial Institutions & Monetary Policy	3	2204 505
2204 544	Government & Business	3	2204 505
2204 545	Economics of Labor	3	2204 501
2204 420	Econometrics	3	2204 505
2204 508	Economics of Public Management	3	2204 501
2204 543	United States and the World Economy	3	2204 505
Finance Courses			
0504 551	Investments, Portfolios & Security Analysis	3	0504 501
0504 552	International Financial Policy	3	0504 501
0504 553	Financial Markets Theory & Practice	3	0504 501
0504 554	Advanced Financial Policy (Sections available with emphasis on public service organizations)	3	0504 501 0503 503
0504 555	Financial Structure Analysis	3	0504 553

Management Courses

0501	510	Personnel Management	3	0501	502
0501	511	Issues in International Management	3	0501	501
0501	512	Organizational Development	3	0501	502
0501	513	Leadership & Behavior	3	0501	502
0501	514	Management & the Computer	3	0501	502
				0503	503
2207	501	Public Administration & Public Policy	3	0501	501

Marketing Courses

0509	591	Consumer/Buyer Behavior	3	0509	501
0509	592	International Marketing Management	3	0509	501
0509	593	Product Planning/New Product Management	3	0509	591
0509	594	Marketing Information Systems	3	0509	501
0509	595	Marketing Management	3	0509	501

Quantitative Analysis

0503	531	Business Models	3	0503	501
0503	532	Statistical Inference	3	0503	501
0503	533	Scholastic Models	3	0503	502
0503	534	Multivariate Analysis	3	0503	502
				0503	532
0503	535	Advanced Information Systems	3	0503	503

IV. Electives

Students must take at least 15 hours in addition to core requirements in courses outside the field of concentration. See above list.

Courses Outside the School of Business Administration

All courses taken outside the School of Business Administration must be approved in advance by the student's graduate advisor and Graduate Office. Students must take at least 12 sh in addition to core requirements outside of their concentration.

BUSINESS AND DISTRIBUTIVE EDUCATION

Chairperson: Prof. Rosemarie McCawley

Graduate Advisors: Dr. Stephen Cyrus

Dr. Joseph C. Hecht

The department of business education and office systems administration prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education and distributive education. In order to attain these objectives candidates have an opportunity to supplement their undergraduate program and to explore advanced areas of work in accordance with their individual background, experience, achievement and professional needs.

ADMISSION REQUIREMENTS

Graduate work toward the Master of Arts Degree in Business and Distributive Education presupposes the completion of an undergraduate major in business or distributive education or equivalent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BUSINESS AND DISTRIBUTIVE EDUCATION

- | | | |
|------|--|-------|
| I. | Basic Professional Education | 6 sh |
| II. | Specialization | 20 sh |
| | A. Required Courses | |
| | 0838 501 Principles and Problems of Business Education ... | 3 |
| | 0838 503 Introduction to Research in Business Education ... | 3 |
| | 0838 603 Seminar in Business Education | 3 |
| | At least one of the following for students of Business Education: | |
| | 0838 511 Improvement of Instruction in Bookkeeping,
Accounting and Business Arithmetic | 3 |
| | 0838 512 Improvement of Instruction in General Business
Subjects | 3 |
| | 0838 513 Improvement of Instruction in Stenography
and Secretarial Practice | 3 |
| | 0838 514 Improvement of Instruction in Typewriting,
and Clerical Practice | 3 |
| | At least one of the following for students of Distributive Education: | |
| | 0840 550 Improvement of Instruction in Retailing Subjects ... | 3 |
| | 0840 552 Improvement of Instruction in Wholesaling and
Services | 3 |
| | B. Electives in Business and Distributive
Education | |
| | | 8 sh |
| III. | Free Electives | 6 sh |
| IV. | Comprehensive Examination. Oral and written, given in the Fall
and Spring in conjunction with 0838 603 Seminar in Business Edu-
cation. Examinations are general in nature and are intended to test
maturity of thought with respect to business and distributive educa-
tion. | |

Minimum: 32 semester hours

BUSINESS AND DISTRIBUTIVE EDUCATION Course Descriptions

V 0838 501 PRINCIPLES AND PROBLEMS OF BUSINESS 3 sh EDUCATION

Survey of principles and practices. History of business education, objectives, relationship of business education to general education, trends and problems in the field.

V 0838 503 INTRODUCTION TO RESEARCH IN BUSINESS EDUCATION 3 sh

Literature and research of business education. Topics covered include: evaluation of current literature in business education research, methods and techniques of business education research and tools used for interpreting statistical data. Student develops outline of research study to be completed in 0838 603, Seminar in Business Education.

Prerequisite: 0838 501 and an Improvement of Instruction course.

V 0838 504 EVALUATION AND MEASUREMENT IN BUSINESS EDUCATION 3 sh

Constructing, administering, interpreting and evaluating all types of testing and evaluation materials in business subjects.

V 0838 505 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION 3 sh

Study of problems of organizing, directing and supervising business education programs at the secondary school and collegiate levels.

V 0838 506 BUSINESS EDUCATION CURRICULUM 3 sh

Study of business education for various levels and types of schools. Evaluation of specific programs development of improved curricula.

V 0838 511 IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING, ACCOUNTING, AND BUSINESS ARITHMETIC 3 sh

Study of objectives, content, methods, teaching aids, and evaluation procedures.

Prerequisites: Undergraduate methods course in bookkeeping and/or teaching experience.

V 0838 512 IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS SUBJECTS 3 sh

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as general business, economic geography, business law and consumer education.

Prerequisites: Undergraduate courses in general business and/or methods or teaching experience.

V 0838 513 IMPROVEMENT OF INSTRUCTION IN STENOGRAPHY AND SECRETARIAL PRACTICE 3 sh

Study of objectives, content, methods, teaching aids, and evaluation procedures for subjects in stenography and secretarial practice. Proficiency examinations in stenography will be given.

Prerequisite: Undergraduate Methods in Stenography and/or teaching experience.

V 0838 514 IMPROVEMENT OF INSTRUCTION IN 3 sh
TYPEWRITING AND CLERICAL PRACTICE

Study of objectives, content, methods, teaching aids, and evaluation procedures of subjects in typewriting and clerical practice. Proficiency examinations in typewriting will be given.

Prerequisite: Undergraduate Methods in Typewriting and/or teaching experience.

V 0838 527 WORKSHOP IN CLERICAL AND SECRETARIAL 3 sh
PRACTICE, ADVANCED STENOGRAPHY,
ADVANCED TYPEWRITING, OFFICE MACHINES

Workshops, which may run simultaneously, in study, planning and development of teaching materials and projects fitted to a particular situation. Individual and small-group instruction with occasional seminar meetings of the entire group.

Prerequisite: Teaching experience in the field.

V 0838 528 FIELD STUDIES IN BUSINESS/DISTRIBUTIVE 3 sh
EDUCATION

Opportunity for the classroom teacher to evaluate some of the practices of business offices, industries and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

V 0838 529 PRINCIPLES OF COOPERATIVE OFFICE 3 sh
EDUCATION

Survey of principles and practices of cooperative office education, objectives, organization, related class, placement, and supervision are investigated.

Prerequisite: Business education teaching certificate

V 0838 530 BUSINESS/DISTRIBUTIVE EDUCATION IN 3 sh
POST HIGH SCHOOL INSTITUTIONS

This course is designed to acquaint the student with the purposes, curricula, methods, and problems of teaching business education subjects in post-high school institutions, two-year, and four-year colleges.

V 0838 570 BUSINESS/DISTRIBUTIVE EDUCATION FOR 3 sh
TEACHERS OF THE DISADVANTAGED

Prepares teachers of business subjects to meet specific needs of disadvantaged students. Occupational opportunities open to the disadvantaged, and the secondary school business program which will prepare them for these occupations. Teachers will build curricula and develop special instructional materials and methods needed for disadvantaged students in the inner-city schools.

V 0838 603 SEMINAR IN BUSINESS EDUCATION 3 sh

Matriculated graduate student in business or distributive education completes research project in business or distributive education. Course also prepares student for master of Art's comprehensive examinations.

Prerequisite: 0838 503

V 0840 550 IMPROVEMENT OF INSTRUCTION IN RETAILING SUBJECTS 3 sh

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as salesmanship, retail store operation, advertising, merchandising and marketing.

Prerequisite: Undergraduate methods in distributive education, and/or teaching experience.

V 0840 552 IMPROVEMENT OF INSTRUCTION IN WHOLESALING AND SERVICES 3 sh

Objectives, content, methods, teaching aids and evaluation procedures for courses such as wholesaling, limited and service types; service, gas stations, cleaning establishments, rent-all and other service organizations.

Prerequisite: Undergraduate methods course in distributive education or teaching experience in distributive education.

V 0840 553 PRINCIPLES AND PROBLEMS OF ADULT EXTENSION DISTRIBUTIVE EDUCATION 3 sh

Organization, promotion, publicity and methods for adult extension classes, using community resources. Includes in-service, preservice and advanced courses for adults in urban and suburban situations.

V 0840 554 WORKSHOP IN PROBLEMS OF DISTRIBUTIVE EDUCATION 3 sh

Intensive analysis of problem-solving in distributive education programs. Discussion experience in teaching and administering distributive education programs. Committee work-seminar method is used.

V 0840 556 THE PROJECT METHOD IN DISTRIBUTIVE EDUCATION 3 sh

Development, use and coordination of individual, small-group and class vocational projects providing simulated occupation experience for the high school non-co-operative distributive education student.

The following Senior-Graduate courses may be elected with the permission of the graduate advisor. Description of courses may be found in undergraduate bulletin.

0840 454	Principles and Methods of Teaching Distributive Education and Coordination	3
0840 455	Curriculum Development in Distributive Education ..	2
0840 456	Organization and Administration of Distributive Education	2
0840 457	Organization and Administration of Co-curricular Activities in Distributive Education	2

CHEMISTRY

Chairperson: Dr. John Isidor

Graduate Advisor: Dr. Joseph F. Becker

The chemistry department offers advanced level courses in all major areas of chemistry as well as a number of highly specialized courses and individualized research opportunities. Students may selectively take a course or several courses to increase their professional competence in a particular area of chemistry and/or may elect to enroll in the Master of Arts Program in chemistry as outlined below.

ADMISSION REQUIREMENTS

The minimum requirements of the Graduate Division as set forth in this bulletin are essential for admission to the graduate program in chemistry. When the student is admitted to the Graduate Division, the chemistry advisor will evaluate the background in chemistry, other sciences and mathematics and a specific program will be designed. An entering student should present at least twenty-four semester hours of undergraduate chemistry credits. In consultation with the chemistry advisor, a program may be designed for students with less background to include prerequisites. Candidates for the Master's degree in chemistry should seek the guidance of the chemistry advisor in selecting the six hours of free electives, and in fulfilling the research option.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CHEMISTRY

- I. Specialization26 sh
 - A. Courses in Chemistry at the 500 level or above15
 - B. Research: One of the following:
 - 1905 599 Graduate Literature Search in Chemistry2
 - or
 - 1905 595 Graduate Research and 1905 600 Thesis4 or 6
 - C. Graduate Level Electives in Sciences
or Mathematics5-9 sh
- II. Graduate Level Free Electives6 sh
- III. Comprehensive Examination

Minimum:32 semester hours

CHEMISTRY

Course Descriptions

R 1905 521 ADVANCED THEORETICAL INORGANIC CHEMISTRY 3 sh

Current theories of inorganic structure, reactions and properties.

Prerequisites: 1905 341, 423 or equivalent

R 1905 531 ADVANCED THEORETICAL ORGANIC CHEMISTRY **3 sh**

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.

Prerequisite: 1905 430

R 1905 532 ORGANIC SYNTHESIS **3 sh**

Detailed study of the art, methods, and the philosophy of organic synthesis beginning with a review of classical and modern synthetic methods, followed by the planning theory of synthesis and culminating in a study of elegant syntheses in the literature.

Prerequisite: 1905 430 or equivalent.

R 1905 540 CHEMICAL THERMODYNAMICS **3 sh**

In-depth study of classical thermodynamics. Development of thermodynamic functions describing chemical systems in equilibrium with emphasis on systems of variable composition.

Prerequisites: 1905 341, 1701 420 or equivalent.

R 1905 542 THEORETICAL PHYSICAL CHEMISTRY **3 sh**

Theoretical development of quantum mechanics and statistical mechanics as applied chemistry. Application of theoretical procedures to atomic and molecular structural and bonding.

Prerequisites: 1905 341, 1701 420 or equivalent.

R 1905 544 ELECTROCHEMISTRY **3 sh**

Principles and application of electrochemistry as related to research and production problems. Prerequisites: 1905 341, 343.

R 1905 546 CHEMICAL SPECTROSCOPY **3 sh**

Introduction to the theory and experimental techniques of molecular spectroscopy.

Prerequisite: 1905 341 or equivalent.

R 1905 548 CHEMICAL KINETICS **3 sh**

Kinetics in its role of elucidating reaction mechanisms. Discussion of recent problem from the chemical literature including fast reaction and enzyme kinetics.

Prerequisite: 1905 341.

R 1905 570 ADVANCED BIOCHEMISTRY **3 sh**

A detailed treatment of selected topics in Biochemistry. Discussions of carbohydrates lipid and amino acid metabolism, protein synthesis and nucleic acid chemistry.

Prerequisite: 1905 470 or equivalent.

R 1905 590 SELECTED TOPICS IN ADVANCED CHEMISTRY **3 sh**

An in-depth study of selected areas in either analytical, inorganic, organic or physical chemistry with special emphasis upon recent developments in the field.

Prerequisite: Instructor's permission.

R 1905 595 GRADUATE RESEARCH**2 sh**

Directed individual laboratory investigation under guidance of faculty advisor. May be elected once or twice, maximum credit allowed is 4 sh. Prerequisite: Instructor's permission.

**R 1905 599 GRADUATE LITERATURE SEARCH IN
CHEMISTRY****2 sh**

An individual non-experimental investigation utilizing the scientific literature.

Prerequisite: Instructor's permission.

R 1905 600 THESIS**2 sh**

Writing, presentation, and defense of thesis before the chemistry faculty.

Prerequisite: Instructor's permission.

The following Senior-Graduate courses may be elected with the permission of graduate advisor. Course descriptions will be found in the current undergraduate bulletin.

	semester hours
R 1905 411 Water Analysis and Purification	3
R 1905 421 Principles of Descriptive Inorganic Chemistry	3
R 1905 470 Biochemistry	3
R 1905 490 Selected topics in Chemistry	2-3

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Dr. Terry O. Schon

Graduate Advisors: Dr. Elaine Barden,

Dr. Marilyn E. Gonyo, Dr. Terry Schon,

Dr. Edward Shulman, Dr. Gerald Woolf

Graduate students have the opportunity to specialize within the broad area of communication sciences and disorders in one of the four major tracks: (1) speech-language pathology; (2) audiology; (3) the hard of hearing and the deaf and (4) learning disabilities.

All four programs stress an interdisciplinary approach to the understanding and remediation of communication and learning disorders, with emphasis on development of clinical skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual and clinical skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

ADMISSION REQUIREMENTS

Speech-Language Pathology

Students wishing to matriculate in this area must have completed the equivalent of 30 semester hours from among the following areas:

A. Professional Education—A minimum of 9 semester hours including one course from each of the following: principles and practices of education, educational psychology and curriculum.

B. Specialization—A minimum of 12 semester hours from among the following: psychology and education of the handicapped, phonetics, anatomy and physiology of the auditory and vocal mechanisms, speech correction, speech pathology, clinical practices in speech correction, measurement of hearing (audiology).

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's degree.

Audiology and the Hard of Hearing and the Deaf

Students wishing to matriculate in this area must have a minimum of 18 semester hours from among the following: anatomy and physiology of the auditory and vocal mechanisms, speech and language development, speech pathology, measurement of hearing, auditory rehabilitation, clinical practice in audiology.

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's degree.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMMUNICATION SCIENCES AND DISORDERS

- I. Basic Requirements9 sh
One of the following:
0824 503 Methods of Research3
2001 510 Research Methods in Psychology3
*0824 507 Measurements and Evaluation in Cognitive Domain 3
or
*0824 578 Testing and Evaluation3
or
*2001 578 Psychological Tests and Measurement3
Two of the following:
0808 0500 Nature of Reading3
1220 500 Acquisition of Speech and Language3
1220 583 Language Disorders in Children3
Either:
*2001 563 Theories of Learning3
or
*2001 560 Advanced Educational Psychology3

The following electives may be taken in place of or in addition to required courses listed above by permission only.

1220 502	Psychology of Oral Communication	3
2001 561	Developmental Psychology	3
0842 564	Dynamics of Group Process	3
2001 568	Psychology of Group Dynamics	3
0826 570	Counseling Adults	3
0826 580	Principles of Guidance and Counseling	3
2001 582	Behavior Modification	3
0826 585	Group-Guidance and Counseling Activities	3

II. Core Courses8 sh

Required of all students regardless of specialization:

2001 565	Psychology and Education of Socially and Emotionally Handicapped Children	3
*2001 573	Physiological Psychology	3
	or	
*1220 595	Medical and Physical Bases of Learning Disabilities 3	
2001 561	Developmental Psychology	3
	(required for Teacher of the Emotionally Disturbed program)	
1220 620	Orientation and Observation in Special Education ..	2

The following electives may be taken in place of or in addition to required courses listed above by permission only:

1301 445	The Inner City Family	3
0821 540	Social Forces and Education	3
2001 553	Urban Psychology	3
2001 564	Psychology and Education of the Physically and Mentally Handicapped Children	3
2208 565	Sociology of Youth	3
1220 586	Education of the Handicapped	3

*Required for certification in Learning Disabilities.

III. Specialization Requirements21 sh

Speech-Language Pathology

1220 535	Advanced Seminar in Communication Disorders ...	6
1220 531	Advanced Audiology	3
1220 583	Language Disorders in Children	3
1220 592	Seminar in Research in Speech Pathology	3
Electives	.....	6 semester hours

Completion of 150-300 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation of the graduate degree.

ASHA certification requirements in Speech Pathology include a 3 credit undergraduate or graduate course in Aural Rehabilitation.

Audiology

1220 536	Seminar in Audiology	6
1220 531	Advanced Audiology	3
1220 593	Seminar in Research in Audiology	3
Elective in auditory rehabilitation		3
(1220 537, 569, 570 or 571)		

The Hard of Hearing and the Deaf

1220 531	Advanced Audiology	3
1220 561	Clinical Practicum on Teaching the Deaf (150 hours)	3
1220 569	Teaching Total Communication to the Deaf I	3
1220 570	Teaching Total Communication to the Deaf II	3
1220 571	Methods of Teaching the Deaf	3
1220 578	Seminar in Research in the Hard of Hearing and the Deaf	3
Elective		3

Learning Disabilities

1220 580	Diagnosis and Correction of Children with Learning Disabilities I	3
1220 581	Diagnosis and Correction of Children with Learning Disabilities II	3
1220 582	Remediation of Basic Skills	3
1220 590	Practicum in Learning Disabilities	3
1220 589	Seminar in Research in Learning Disabilities	3
Electives		6

IV. Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

Communication Sciences

1220 522	Advanced Phonetics	2
1220 534	Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms	3
1220 572	Speech Science and Instrumentation	3

Communication Disorders

Speech Pathology

1220 511	Advanced Speech Pathology	3
1220 512	Advanced Diagnosis of Communication Disorders	3
1220 513	Parent Counseling in Communication Disorders	3
1220 514	Communication Disorders of the Aged	3
1220 515	Voice Disorders	3
1220 532	Practicum in Speech Rehabilitation	2-3
1220 584	Cleft Palate and Oral Deformities	3
1220 585	Stuttering	3
1220 591	Organization and Administration of Communication Disorders Program	3
1220 594	Independent Study	1-3
1220 533	Supervision of Speech and Hearing Programs	3

Audiology

1220 537	Hearing Aids and Hearing Aid Selection	3
1220 538	Differential Audiometry	3
1220 540	Practicum in Audiology	1-3
1220 542	Identification Audiometry and Conservation Programs	3

Deafness and Hearing Impairment

1220 574	Psychology of Deafness	3
1220 500	Speech and Language Acquisition	3
1220 501	Language Development in the Primary Grades	3

Learning Disabilities

1220 586	Education of the Handicapped	3
2001 564	Psychology and Education of the Physically and Mentally Handicapped Child	3
2001 561	Developmental Psychology	3
2001 582	Behavior Modification	3
0824 564	Dynamics of Group Process	3

Additional Departmental Requirements

1. Comprehensive project or examination.

2. Majors in speech pathology and audiology must complete a total of 300 hours of supervised direct clinical experience. Up to 150 hours completed as an undergraduate will be accepted toward the requirement. Majors in Hard of Hearing and Deaf, and Learning Disabilities, must complete a minimum of 150 clock hours of supervised experience.

Courses are offered in this department that meet prerequisite requirements in speech pathology for admission to the graduate program. In addition, post-master's students may apply for admission to a program leading to certification for Learning Disabilities Teacher-Consultant.

Learning Disabilities

Students wishing to matriculate in this area must have:

A standard New Jersey teachers certificate, or equivalent, one year of classroom teaching experience or special instructional experience (speech correction, reading, student personnel); approval by Graduate Committee on Admission for this program; two letters of recommendation regarding teaching or therapy skills.

Note: State certification requirements for Learning Disabilities Teacher Consultants are subject to change.

REQUIREMENTS FOR CONCENTRATION IN TEACHER OF THE SOCIALLY AND EMOTIONALLY HANDICAPPED

One course of study in the College's interdepartmental programs in special education prepares students to teach socially and emotionally

maladjusted children. This concentration, coordinated by the Psychology Department, also leads to New Jersey certification in Teacher of the Handicapped. (Please refer to page 176, for M.A. in Educational Psychology, Interrelated Graduate Program in Special Education.

Post-Master's Certification Program in Learning Disabilities

A post-Master's candidate seeking certification in Learning Disabilities must complete twenty-four semester hours in the area of study listed below. Qualified teachers, however, who have already earned a Master's degree in education, reading, speech correction, psychology, special education, or similar fields, may apply appropriate credits toward the 24 s.h. required for LDT-C certification.

Note: State certification requirements for Learning Disabilities Teacher-Consultants are subject to change.

REQUIREMENT FOR CERTIFICATE IN LEARNING DISABILITIES

The graduate advisor will examine the post-Masters applicant's transcripts of completed graduate courses in order to determine which of the following courses may be applied toward certification for Learning Disabilities Teacher-Consultant:

A. Required Studies (not necessarily in separate courses):

	MSC Equivalent
1. Education of the Handicapped	2001 564 or 1220 586
2. Learning Theory	2001 563 or 2001 560
3. Physiological Bases of Learning	2001 573 or 1220 595
4. Orientation to Psychological Testing	2001 578 or 0824 578
5. Remediation of Basic Skills	1220 582
6. Diagnosis and Correction of Learning Disabilities	1220 580 & 581
7. 150 clock hours supervised practicum (minimum)	1220 590

B. Electives

1. Group Dynamics	0842 564; 2001 568
2. Teaching Emotionally Disturbed Child	2001 565
3. Curriculum Development for the Handicapped	2001 541
4. Child Growth and Development	2001 561
5. Language Development and Disorders	1220 563
6. Teaching of the Culturally Handicapped	2001 553; 2001 541
7. Interviewing and Counseling	0826 580; 2001 593
8. Educational Psychology	2001 560
9. Community Resources	0826 560; 1220 620

Each student's record will be evaluated by the Office of the Registrar after completing all, or the necessary part, of the 24 s.h. requirement. If work has been satisfactorily completed, and all other requirements have been met, the student will be recommended to the Office of Teacher Education and Certification for certification as a *Learning Disabilities Teacher-Consultant*.

The requirements for this endorsement, in addition to the completion of the prescribed academic program, are:

1. A standard New Jersey Teacher's Certificate.
2. Three years of successful teaching experience (Montclair requires two letters of recommendation from a current or previous employer and a notarized statement verifying at least three years of full time paid employment as a teacher or clinician).
3. A Master's degree in a related field from an accredited college.

COMMUNICATION SCIENCES AND DISORDERS

Course Descriptions

2 1220 500 SPEECH AND LANGUAGE ACQUISITION 3 sh

The nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.

2 1220 501 LANGUAGE DEVELOPMENT IN PRIMARY GRADES 3 sh

Language activities in the elementary school curriculum analyzed with emphasis on the development of techniques for enhancing oral language proficiency in the school age child.

2 1220 502 PSYCHOLOGY-ORAL COMMUNICATION 3 sh

Speech and language in the individual problems of communication that lead to confusion of meaning and misunderstanding. Psychology of persons who are handicapped in speech, hearing and/or reading, including those with hysterical or psychogenic impairments. Contributions of learning theory and of psycholinguistics.

2 1220 503 LANGUAGE AND COMMUNICATION 3 sh

Examines the influence of psychology, linguistics, and biology on the study of how adults use language and how children learn language. Topics include current theory and experimental research in psycholinguistics, the relation between language and thought, language disorders, development of communication abilities and dialect differences.

2 1220 511 ADVANCED SPEECH PATHOLOGY 3 sh

Modern techniques of speech rehabilitation and review of research findings in voice, articulation, rhythm and symbolization disorders. Speech rehabilitation integrated with related health services and educational services in schools and special centers.

Prerequisite: 1220 410 or equivalent.

2 1220 512 ADVANCED DIAGNOSIS-COMMUNICATION DISORDERS 3 sh

Continuation of diagnosis procedure including tests for multiple handicapped children with communication disorders. Opportunities provided for interviewing parents, testing and report writing.

2 1220 513 PARENT COUNSELING IN COMMUNICATION DISORDERS 3 sh

Parent-child-clinician triad analyzed with emphasis on parent counseling regarding home management of the child, interpretation of diagnostic and therapy findings and referral.

Prerequisite: 1220 411 or equivalent.

2 1220 514 COMMUNICATION DISORDER OF AGED 3 sh

Communication disorders associated with pathologies that tend to occur in later life, e.g., aphasia, multiple sclerosis, parkinsonism and cerebral arteriosclerosis.

Prerequisite: 1220 410 or equivalent.

2 1220 515 SEMINAR IN VOICE DISORDERS 3 sh

Selected disorders of voice production. Consideration given to etiology, pathology and therapy related to vocal nodules, contact ulcers, paralysis of the vocal cords and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions.

2 1220 522 ADVANCED PHONETICS 3 sh

Skill in use of phonetics in recognizing and distinguishing acceptable English speech sounds, deviant speech sounds, regional variations in standards of American English and sounds in foreign languages. Stress, phrasing and intonation patterns used in speaking English, with some analysis of these elements in other languages.

Prerequisite: 1220 104 or equivalent.

2 1220 531 ADVANCED AUDIOLOGY 3 sh

Increase skill in administering tests for pure-tone and speech reception thresholds evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering pre- and post-surgical audiometry and special problems of differential diagnosis in testing children.

Prerequisite: 1220 468 or equivalent.

2 1220 533 SUPERVISION OF SPEECH AND HEARING PROGRAMS 3 sh

Develops skill in supervision of beginning clinicians by experienced therapists, criteria for evaluation, writing critiques and understanding interpersonal relationships that enhance teaching through criticism.

2 1220 534 ADVANCED ANATOMY AND PHYSIOLOGY OF THE VOCAL AND AUDITORY MECHANISMS 3 sh

Basic anatomy of mechanisms of speech reception and expression, the integrated functioning of the central nervous system, the autonomic nervous system and the endocrine system, abnormalities of structure and function of the speech and hearing processes, medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissection.

Prerequisite: 1220 208 or equivalent

2 1220 535 ADVANCED SEMINAR IN COMMUNICATION DISORDERS 6 sh

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders of organic etiology. Prerequisite: Permission of Graduate Advisor.

2 1220 536 SEMINAR IN AUDIOLOGY 6 sh

Significant issues in audiology and opportunities for observation and participation in advanced clinical procedures. Minimum of 150 clock hours of practicum experience on and off campus required.

2 1220 537 HEARING AIDS AND HEARING AID SELECTION 3 sh

Principles and Procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds.

2 1220 538 DIFFERENTIAL AUDIOMETRY 3 sh

Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.

2 1220 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3 sh

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Limitation: for non-majors.

2 1220 540 PRACTICUM IN AUDIOLOGY 1-3 sh

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: 1220 538.

2 1220 541 ADVANCED PRACTICUM IN AUDIOLOGY 1-3 sh

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: 1220 541.

2 1220 542 IDENTIFICATION AUDIOMETRY AND CONSERVATION PROGRAMS 3 sh

Approaches to identification of hearing problems in school children and hearing conservation programs. Industrial audiology noise pollution, damage risk criteria and employment-connected hearing disability.

- 2 1220 561 CLINICAL PRACTICUM IN TEACHING THE DEAF** 3 sh
 Observing and teaching in a school or program for the deaf. Required of students who have little or no previous experience. Total of 150 hours must be completed with no more than 35 hours credited for previous experience elsewhere.
- 2 1220 569 TEACHING TOTAL COMMUNICATION TO THE DEAF** 3 sh
 This course is the first part of a 6 sh sequence. It is designed to provide students with a general orientation to all aspects of communication as it relates to deafness. The role of total communication within the educational setting will be explored in depth and students will develop basic skill in manual communication.
- 2 1220 570 TEACHING TOTAL COMMUNICATION TO HARD OF HEARING AND DEAF II** 3 sh
 Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.
 Prerequisite: 1220 569.
- 2 1220 571 METHODS OF TEACHING THE DEAF AND HEARING IMPAIRED** 3 sh
 Pre-school to the adult level, with emphasis on language development and compensatory learning.
- 2 1220 572 SPEECH SCIENCE AND INSTRUMENTATION** 3 sh
 Analysis of speech production and reception through use of equipment designed to measure selected features of the communication process.
- 2 1220 574 PSYCHOLOGY OF DEAFNESS** 3 sh
 Effects of deafness and hearing loss on the intellectual, social and emotional development of the child; congenital and acquired hearing loss and the behavior of hearing members of the client's world.
- 2 1220 575 LANGUAGE DEVELOPMENT FOR THE DEAF** 3 sh
 Communication problems of the deaf with emphasis on application of psycholinguistic theory to development of language skills.
- 2 1220 576 AURAL REHABILITATION FOR ADULTS** 3 sh
 Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.
- 2 1220 578 SEMINAR IN RESEARCH IN THE HARD OF HEARING AND DEAF** 3 sh
 Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental design.

2 1220 580 DIAGNOSIS AND CORRECTION OF CHILDREN 3 sh
WITH LEARNING DISABILITIES I

Conceptual model of learning disabilities parameters of the diagnostic evaluation of the child who is failing in school. Tests demonstrated students trained in analyzing results and prescribing individualized educational plans.

2 1220 581 DIAGNOSIS AND CORRECTION OF CHILDREN 3 sh
WITH LEARNING DISABILITIES II

Continuation of 1220 580. Developing instruction plans from diagnostic data. Parameters of managing learning disabled children within and outside the regular classroom consultation techniques for use with classroom teachers.

Prerequisite: 1220 580

2 1220 582 REMEDIATION OF BASIC SKILLS 3 sh

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school.

Prerequisite: 1220 580, 581.

2 1220 583 LANGUAGE DISORDERS OF CHILDREN 3 sh

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood Aphasia, deafness, retardation and emotion problems.

Prerequisites: 1220 500 or equivalent for Speech Pathology Majors, 1220 580 for Learning Disabilities Majors.

2 1220 584 CLEFT PALATE AND ORAL DEFORMITIES 3 sh

Etiology and characteristics of cleft palate and oral deformities or malfunctions in children; speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

2 1220 585 STUTTERING 3 sh

Principles and methods of speech therapy with children and adults who stutter. Methods of evaluation, specific techniques of speech therapy, and principles coordinating speech therapy with home and school life. Demonstrations with clients who stutter serve as the basis for study and discussion.

2 1220 586 EDUCATION OF THE HANDICAPPED 3 sh

Role of the teacher on the professional team. State and Federal legislation relating to handicapped children and adults and community resources for the special child.

2 1220 589 SEMINAR IN RESEARCH IN LEARNING 3 sh
DISABILITIES

Significant problems in field of learning disabilities investigated, and published research projects evaluated. Critical analysis and experimen-

tal design.

Prerequisite: 1220 580, 581 or 582. Permission of Graduate Advisor.

2 1220 590 PRACTICUM IN LEARNING DISABILITIES 3 sh

Clinical diagnosis and teaching of children with learning disabilities. Supervision by departmental staff is given to fulfill the 150 hour requirement. Arrangements can be made for both on-campus and off-campus experiences. (Matriculated L.D. Majors).

Prerequisites: 1220 580, 581, 582, and permission of graduate advisor.

2 1220 591 ORGANIZATION AND ADMINISTRATION OF COMMUNICATION DISORDERS PROGRAMS 3 sh

Problems of organizing and administering comprehensive speech program in a school system curriculum development, teacher-administration relationships, class scheduling, reports and records, in-service training and integration of the speech program with the total school curriculum.

2 1220 592 SEMINAR IN RESEARCH IN SPEECH PATHOLOGY 3 sh

Significant problems in the field investigated and published research projects evaluated. Critical analysis and experimental design.

Prerequisite: Instructor's Permission.

2 1220 593 SEMINAR IN RESEARCH IN AUDIOLOGY 3 sh

Significant problems in the field of audiology evaluation of published research projects critical analysis and experimental design.

Prerequisite: Instructor's Permission.

2 1220 594 INDEPENDENT STUDY 1-3 sh

Students select an area of Communication Sciences and Disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation.

Prerequisite: Instructor's permission.

2 1220 595 MEDICAL AND PHYSICAL BASES OF LEARNING DISABILITIES 3 sh

Critical dimensions of the neurological and physiological growth of the child. The scope and meaning of pediatric and neurological examination and relevance of medical data to explain learning disorders. Aspects of drug and nutritional therapy will be explained.

2 1220 620 ORIENTATION AND OBSERVATION IN SPECIAL EDUCATION 2 sh

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers or special class guest lecturers.

COUNSELING, HUMAN SERVICES, AND GUIDANCE

Chairperson and Graduate Advisor: Dr. Richard A. Grey

Counseling, Human Services and Guidance are an integral part of the American scene. Schools and colleges, community agencies and industry, and state and federal governments have all developed services to aid students, workers and others to adjust to a changing society. Montclair State College has been a leader in the preparation of professional personnel to staff these efforts, in developing programs to identify new areas of counseling services, and in providing new approaches to the training of counselors and human services personnel.

Utilizing the resources identified through outreach programs, the department provides courses to train counselors and human services personnel to work with inner-city youth, black and Puerto Rican communities, women, veterans, prisoners, re-entry adult learners, and drug and alcohol abuse. Building blocks of courses around the unique needs of specialized groups.

Although we are involved in serving special interest groups, we shall continue to serve the needs of the larger population in the traditional settings.

Students are offered the opportunity to complete programs in the following concentrations:

- A. Counseling and Guidance.
- B. Human Services. The Human Services program prepares students for leadership roles in a variety of areas in which personal awareness, skills in group leadership, and the ability to facilitate communication within and among groups are required. Program participants are encouraged to become involved in personal development in the area of their choice. Students concentrating in Human Services may select one of the following options: (1) Human Services, with emphasis upon group dynamics, or (2) Human Services—Flexible, which combines group dynamics with a counseling component. A third option with an emphasis upon Human Services in Higher Education is being planned; interested students should consult the department chairman for further information about this option.

Completion of the Master of Arts program in Counseling and Guidance provides basic certification as School Guidance Counselor (SPS Certification).

Students may also complete the certification for School Social Workers as part of the departmental offerings.

ADMISSION REQUIREMENTS

All students must meet the admission requirements for graduate study at Montclair State College. In addition, they must be interviewed and accepted for matriculation by the departmental faculty.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COUNSELING, HUMAN SERVICES, AND GUIDANCE

- I. Core Areas12 sh
Counseling and Guidance: 0826 580, 582, 588, and 585
(0842 564 may be substituted)
Human Services: 0842 564, 565, 568
Human Services (Flexible): 0826 580, 582, 588 and 585
(0842 564 may be substituted)
- II. Testing and Evaluation3 sh
Counseling and Guidance: 0826 579 or 0824 578
Human Services: No requirement
Human Services (Flexible): 0826 579 or 0824 578
- III. Psychological Foundations6 sh
To be selected from Psychology Department offerings with the approval of the student's graduate advisor
- IV. Sociological/Economic Foundations6 sh
Counseling and Guidance: 0826 581 and select one: 0821 540, 544, or 521.
Human Services: Elective, 3 semester hours only
Human Services—(Flexible): 0826 581 and 3 sh elective
- V. Research3 sh
All concentrations: 0824 503
- VI. Fieldwork3 sh
Depending on concentration: 0826 654, 655 or 656
Note: Fieldwork/Practicum in each concentration consists of a field placement in a field site approved by the Fieldwork/Practicum instructor. A minimum of 150 hours of observation and contact with clients at the site is required. Periodical practica are held during the term in which the student is enrolled for the course to aid in coordination of the experience and its integration with the total curriculum. Experiences beyond course offerings, and fieldwork tailored to the specific needs of the people involved, are considered.
- VII. Electives: Students will complete elective courses to bring the graduate total to 39 semester hours.
- VIII. Comprehensive Examination or Thesis
The comprehensive examination or a Master's Thesis is required. Students selecting the thesis option should register for 0826 650: Research Seminar and Thesis Writing.

Minimum: 39 semester hours

REQUIREMENTS FOR CERTIFICATION

Guidance Counselor. In addition to completing the prescribed program of studies, persons wishing New Jersey State Certification in Guidance (SPS Certification) must have a bona-fide teaching certificate and one year of full time teaching experience *under certification*. The State Department of Education is currently revising the requirements for certification. Students are encouraged to consult the certification advisor in the Graduate Office regarding the new requirements.

School Social Worker. Those wishing to be certified as school social worker must have a minimum of three years teaching experience or three years of experience in social work under approved supervision. Students should consult their graduate advisor for specific certification requirements.

Note: No specific certification is associated with the Human Services concentration, but many students in this area are able to complete requirements for either the guidance or school social worker certificate.

COUNSELING, HUMAN SERVICES AND GUIDANCE DEPARTMENT

Course Descriptions

F 0826 551 GUIDANCE AND CAREER EDUCATION IN THE CLASSROOM **3 sh**

This course is designed for teachers, counselors and counselors-in-training who are concerned with both guidance within the classroom and with the means of implementing career education/life planning within the classroom. The course emphasizes the role of the teacher and counselor in classroom guidance and career education/life planning. Field visits may be included in this course.

F 0826 560 MEDICAL PROBLEMS IN EDUCATION **3 sh**

In this course the role of the educator is studied in relation to the following subject areas: childhood, chronic and contagious diseases, nutritional problems, narcotics and psycho-socio-medical pathologies. The impact of health problems on the family, school and community is emphasized throughout. Required for certification in school social work.

F 0826 562 SOCIAL CASE WORK I **3 sh**

This course reviews principles in social case work as they relate to the school setting and social agencies. Study is devoted to the theoretical development of social work norms, and to the functional role of the social worker. Cases which have been developed by social workers will be studied and experience in a social work setting will be provided. Required for certification in school social work.

F 0826 563 SOCIAL CASEWORK II**3 sh**

This course is a continuation of social casework I on a more advanced level. It entails critical examination of major social work methods in diagnosis, social functioning and relevant intervention techniques appropriate for the social treatment of individuals.

Prerequisites: 0826 562 or equivalent.

F 0826 564 CASEWORK WITH CHILDREN**3 sh**

The broad, generic approach will embrace problematic situations, not only within the school setting, but in a variety of areas as well. By means of case studies, special outside lectures, text materials, visits to child-serving agencies public and private, together with a comprehensive research assignment, the student will become better equipped to deal effectively with especially difficult cases requiring professional sophistication and dedication.

Prerequisite: 0826 562 or equivalent.

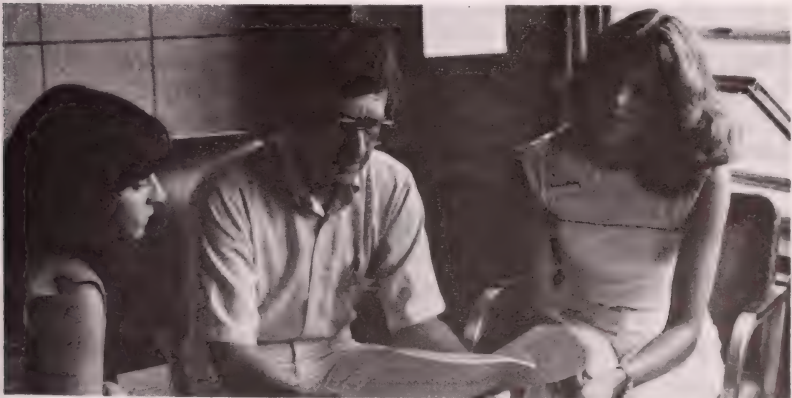
F 0826 565 ROLE OF SCHOOL SOCIAL WORKER**3 sh**

This course examines the historical development of social work in a school setting. Its functional relationship to other supportive services, e.g. child study team, guidance and counseling and administration. Implicit in this course is the understanding of brief casework as the primary treatment tool for problem solving and the importance of social diagnosis, knowledge of and ability to relate to community resources, consultative and referral skills and ability to function in a non-social work setting.

F 0826 569 CASEWORK TREATMENT IN THE CONTEXT OF THE FAMILY**3 sh**

Course is a study of family treatment and the caseworker's use of self within the context of the family. Relevant concepts about the family as a social system, interactional processes, role structure and conflicts, individual psychodynamics and situational variables are examined in terms of family diagnosis and treatment techniques within the framework of the family as seen in the literature and practice.

Prerequisite: 0826 562, 563, 570.



F 0826 570 COUNSELING ADULTS**3 sh**

This course is designed to identify the special needs of adults as they seek counseling. Special attention is given to the counseling needs of college students, adults returning to academic environs, women, minority groups, the handicapped, and other adults with special needs. Case studies, field visits, and supervised practice will be basic techniques employed.

Prerequisites: 0826 580 or Instructor's Permission.

F 0826 571 PEER COUNSELING**3 sh**

An advanced course dealing with the concept and experience of peer counseling. The development, organization, implementation, and evaluation of peer counseling programs and activities. This course involves lectures, seminars, and laboratory experiences. In laboratory, students counsel each other. In seminar, they evaluate their peer counseling activities.

Prerequisites: 0826 580, 564.

**F 0826 572 SELF-CRITIQUING FOR IMPROVED
COUNSELING COMPETENCE****3 sh**

Presentation of a theory and system for improving one-to-one counseling through a process of self-critiquing tape recorded interviews of counseling sessions conducted by course participants. Specific counseling behaviors are identified and examined and strategies are developed leading to the attainment of individual behavioral goals.

Prerequisite: 0826 588 or equivalent.

F 0826 577 COUNSELING THEORIES**3 sh**

Entails a comprehensive study of the major schools of thought in psychotherapies, existentialism, Rogerian psychology, rational and motive, and psychoanalysis, among others, are studied in the context of social work, counseling, and psychological practice. Emphasis is in helping prospective human service professionals in recognizing that different theories are effective not because of their unique elements, but because in practice they include the basic common elements of all theories.

F 0826 579 THE USE OF TESTS IN COUNSELING**3 sh**

This course designed to familiarize counselors and school social workers with techniques for use and interpretation of test results. Implicit in this course will be the use of appropriate statistical analysis to draw conclusions for research and program development. Laboratory techniques will be used to give students practical opportunities to administer, score, and interpret a group of tests. Some time will be devoted to the planning of testing programs.

F 0826 580 PRINCIPLES OF GUIDANCE AND COUNSELING**3 sh**

Topics included in this course cover: Philosophy of Guidance, History of

the Guidance Movement, the need for Guidance and Counseling presented by children, adolescents and adults. The methods of gathering useful data are studied. Records, exploratory activities, tests, inventories, the case study approach, occupational information, and occupational data are treated as well as general methods of guidance with special stress on interviewing and counseling of students utilizing both individual and group modalities. Field visits may be included in this course.

F 0826 581 COMMUNITY RESOURCES 3 sh

This course deals with the various agencies, industries and institutions available in the surrounding communities for use in guiding and referring clients. In addition to becoming familiar with the location and nature of these facilities, students learn the techniques for arranging interviews and visits. Class discussion and personal research are supplemented by field trips.

Prerequisite: 0826 580 or concurrent.

F 0826 582 CAREER GUIDANCE AND OCCUPATIONAL INFORMATION 3 sh

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training.

Prerequisite: 0826 580 or concurrent.

F 0826 583 EDUCATION GUIDANCE 3 sh

This course is concerned with the facilities available for education after high-school graduation, the problem of further training for pupils leaving school before completing high school programs of alternative education, and the academic problems of students while in school. A brief survey of colleges and college-admission procedures is made.

Prerequisite: 0826 580.

F 0826 584 GROUP COUNSELING THEORY AND PRACTICE 3 sh

The use of group counseling methods for the facilitation of personal growth. The treatment of social and emotional disorders and the socio-emotional education and enrichment of the individual. Examination of the historical and cultural context for group methods. Emphasis on diagnosis, group membership, group process, relevant social, psychological and educational theories in group behavior, treatment and strategies.

F 0826 585 GROUP GUIDANCE AND COUNSELING ACTIVITIES 3 sh

This course places emphasis on the distinctions between guidance and counseling techniques and the appropriate group activities for each purpose.

Prerequisite: 0826 580.

F 0826 586 ELEMENTARY SCHOOL GUIDANCE SERVICES 3 sh

This course is designed for elementary and middle school teachers and counselors-in-training who are concerned with supportive services related to human growth and life planning as a developmental process for their students. Special attention is given to the identification of problem areas and referral services.

F 0826 587 ADMINISTRATION AND SUPERVISION OF GUIDANCE PROGRAMS 3 sh

Developing and administering programs of student registration, theory and techniques of scheduling, and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district or agency. Examination of current guidance practices. Formation of proposals for improvement in programs where the student is working as a counselor and/or director.

Prerequisite: 0826 580, 589 or equivalent.

F 0826 588 TECHNIQUES OF INTERVIEWING AND COUNSELING 3 sh

Included in this course are techniques applicable to the interviewing and counseling of individuals and small groups. Directive as well as client-centered approaches are utilized. Specific attention is given to techniques such as role-playing, case studies, and audio/video tape feedback.

Prerequisite: 0826 580.

F 0826 589 STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION 3 sh

This course is a study of the student personnel functions in two-year and four-year colleges. The areas to be included are: personal counseling, financial aid, dormitory management, health program, student activities and social programs; course selection, job placement, college admission and academic retention, administration and supervision of the program.

F 0826 601 WORKSHOP IN EDUCATION GUIDANCE 3 sh

Students will be exposed to experiences designed to reinforce previous leadership and membership skills. They will have the opportunity to develop, carry out and evaluate a project concerned with small groups. Students may work singly or in groups to carry out their project designs.

F 0826 650 RESEARCH SEMINAR AND THESIS WRITING 3 sh

During the time that the student is preparing the research document she/he should enroll in 0826 650, thesis supervision. This entitles her/him to faculty advisement and conferences. If the student does not complete the document during the semester in which she/he enrolled for 0826 650, she/he is required to re-enroll in 0826 650 each semester (without credit) until the document is completed.

F 0826 654 FIELD WORK/PRACTICUM IN GUIDANCE AND COUNSELING **2 sh**

The aim of the course is to introduce the student to various aspects of guidance and counseling through experience in schools and/or agencies actually dealing with such problems. Students observe and participate in activities of the agencies to which they are assigned and write full accounts of these observations and experiences. Some time is spent in discussing and evaluating these experiences and relating them to the literature of the subject.

Prerequisite: 21 sh in Master's Degree program. Permission of Department Chairman.

F 0826 655 FIELD WORK AND PRACTICUM IN SOCIAL WORK **3 sh**

The student will be provided with an opportunity to participate in school social work in an actual school situation. Diagnostic skills, interviewing techniques, case recording, individual and group therapy, and the team approach will be observed and discussed. Under the guidance of a certified, experienced school social worker, the student will develop an understanding of the use of community resources. The student will be given an opportunity to observe special services (School Social Worker, Psychologist, Psychiatrist, Speech or Reading Specialist, and teacher) in action as together a therapeutic plan is developed for the school pupil. Prerequisite: 21 sh and approval of Department Chairman.

F 0826 656 PRACTICUM GROUP COUNSELING **3 sh**

An advanced course for those practicing group leaders who wish to enhance their group leading skills. The students will meet and discuss their concerns and experiences. In this way they will be able to reinforce their present beliefs, have an opportunity to explore others' values and evolve alternative ways of working with groups.

Prerequisites: 0826 585, 0842 564, 569.

F 0826 660 SELECTED PROBLEMS IN COUNSELING HANDICAPPED PERSONS **3 sh**

This course presents an overview of prevailing laws, attitudes, issues and practices related to the special needs of handicapped persons. Attention is given to 1) identification and understanding of the handicapped 2) Federal and N.J. State legislation and supportive programs 3) Life-career counseling as particularly relevant to handicapped persons of all ages 4) issues and trends in meeting the special needs of the handicapped.

Prerequisites: 0826 580, Instructor's permission.

F 0826 670 TECHNIQUES OF EVALUATION **3 sh**

Provides a background in the design, use and interpretation of statistical evidence.

F 0826 671 THE USE OF SELF-HELP PROCEDURES IN COUNSELING 3 sh

This course provides students with the opportunity to review, in a laboratory setting, the vast array of self-help materials and procedures available to the general public. Through experiential application, students will become familiar with step-by-step procedures, appropriate application and evaluation of self-help materials in the counseling process.

Prerequisites: 0826 580, 588, instructor's permission.

F 0826 672 COUNSELING THE AGING 3 sh

This course deals with the long-range preventive counseling and crisis intervention in critical stages of the aging process. Covered are such topics as job change, economic upheaval, sexuality, changing family structure, chronic illness, death and dying.

Prerequisite: at least 1 year counseling experience or permission of Department Chairman.

F 0826 673 COUNSELING FOR SEX EQUALITY 3 sh

This course is designed to help student become more aware of the overt and more subtle aspects of sex inequality in our culture, the need for individual and group counseling strategies to overcome sex bias and the development of counseling skills needed to implement these strategies.

F 0826 680 STUDENT PERSONNEL SERVICE TEAM 3 sh

Establishing the philosophy, membership, roles and functions of the various services that compose the personnel services team.

F 0826 682 SEMINAR IN ADVANCED CAREER GUIDANCE 3 sh

This seminar offers participants an in-depth exposure to such topics as latest sources and methods of utilizing career information, use of tests in career guidance, and theories of career development and their application in counseling, and developments in career education as they apply to counselors.

F 0842 550 ADVANCED PROCEDURES IN GROUP PROCESS FOR SPECIAL SERVICES PERSONNEL 3 sh

This is an advanced course for students who have demonstrated an interest in and an aptitude for the group process through the successful completion of 0826 580 principles of guidance and counseling and 0842 564 dynamics of group processes. This course combines theory with experience. It focuses on the examination of systematic approaches for understanding the role of leadership in guidance-related groups. Each student must make available the hours of 5-9:30 P.M. on that night the course is offered.

Prerequisites: 0826 580, 0842 564 or Instructor's permission.

F 0842 564 DYNAMICS OF GROUP PROCESS 3 sh

A laboratory-based course for the development of group skills and understandings. Focus is on experimental learning and personal growth. Readings in human interaction theory will be related to actual group participation.

F 0842 565 CONSULTATION IN ORGANIZATIONAL DEVELOPMENT **3 sh**

A laboratory-based course which focuses on the role of the organizational consultant. Emphasis on planning, providing help and evaluating activities. Diagnostic and behavioral skills to aid individuals and groups within organizations will be developed. Designed for those considering consultation work in business. Industry, government, penology, education and community organizations.

Prerequisite: 0842 564 or instructor's permission.

F 0842 566 FIELD WORK IN GROUP LEADERSHIP **3 sh**

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students will join an on-going task centered group either as a member or its leader and will make a problem diagnosis, procedural plan and a method of evaluation. In-progress and final reports will be discussed.

Prerequisite: 0842 564 or Instructor's permission.

F 0842 567 RESEARCH SEMINAR IN GROUP PROCESSES **3 sh**

Students develop, carry out and evaluate a research project in small group processes. They work singly or in groups to investigate the application of group work to their major fields of interest.

Prerequisite: 0842 564

F 0842 568 THEORETICAL CONSTRUCTS IN SOCIAL GROUP INTERACTION **3 sh**

Problems and current practices in small group interaction, social restructuring and cultural encounter. Survey of literature on the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of self and others.

F 0842 569 TECHNIQUES AND EXERCISES IN GROUP DYNAMICS **3 sh**

A structured experiential course: participating in and evaluating activities and exercises of individuals who work with small groups. Students will modify old designs and create new ones as they compile their own ideas, forms and exercises.

Prerequisite: 0842 564, Instructor's permission, courses in similar field.

F 0842 570 INTRODUCTION TO AFFECT EDUCATION **3 sh**

In this course the focus is on understanding the affective side of the teaching-learning process and its importance to education in general. Through group participation, each student will begin the development of skills for dealing with feelings in the classroom.

F 0842 661 GROUP DEVELOPMENT LABORATORY I **3 sh**

Seminar experiences as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 0842 0564, Instructor's Permission, courses in similar field.

F 0842 662 GROUP DEVELOPMENT LABORATORY II **3 sh**

Seminar experiences as a core for advanced study in organization leadership. Group participation and periodic opportunities to examine problems of a group and effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 0842 564 or Instructor's permission.

F 0842 663 GROUP LABORATORY DESIGN **3 sh**

This course will focus on the translation of client needs into designs for programs of experiential and cognitive learning opportunities. Students will study models of programs which have been used for colleges, schools, businesses, and other organizations. They will then discuss the theoretical aspects involved and participate in the planning, carrying out, and evaluation of current laboratories, workshops, and conferences.

Prerequisite: 0842 564.

CURRICULUM AND TEACHING

Chairperson: Dr. Catherine Becker

Graduate Advisor: Dr. Susie B. Boyce

M.A.T. Coordinator: Dr. Susie B. Boyce

Students with a baccalaureate degree and interest in teaching may earn the Master of Arts in Teaching (MAT) and a Teaching Certificate simultaneously. Curricula for standard teaching fields and special urban programs are available.

The program is open to students with undergraduate background equivalent to a teaching field in one of the following areas: fine arts, business education (bookkeeping and accounting, distributive education, general business education, secretarial studies), English, foreign languages (French, Spanish), home economics, industrial education and technology, mathematics, music, health and/or physical education, science, social sciences, speech and theater. Additional undergraduate course work in the student's teaching field may be required to meet certification standards.

Upon successful completion of the program, the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Although students interested in teaching elsewhere should seek information from the appropriate state authorities, requirements are generally similar.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission and matriculation for the Master's degree, the applicant must file a separate application to the Teacher Education Program by contacting the Graduate Advisor in the School of Professional Studies. Admission to the college cannot be considered admission to Teacher Education.

Criteria considered for admission are:

1. Three recommendations, two of which are from college faculty or school administrators.
2. Verification of demonstrated competence in speech by the Department of Speech and Theater.
3. Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the aptitude section of the Graduate Record Examination. For those whose native language is other than English, the TOEFL Examination may be substituted.
4. Evidence of active interest in community affairs and teaching.
5. Clearance by the Student Personnel Division. (For MSC BA/BS graduates only).
6. Endorsement of the Teacher Admissions Committee (Departmental and School).

Advisement

Persons interested in the program may secure information from their designated advisors. Upon acceptance, the student will be assigned an advisor who will cooperatively develop a formal program of course work with a departmental (teaching field) advisor and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for certification programs. For further information on certification, see page 185, under Approved Certification Programs Non-Degree Post-Baccalaureate/Post M.A.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN TEACHING

I.	Professional Sequence	13-15 sh
A.	Prerequisites	
	2001 101 General Psychology I, Growth and Development (undergraduate credit only)	3
	2001 200 Educational Psychology	3
	(undergraduate credit only)	
	0808 407 Development Reading I	3
	0808 408 Developmental Reading II	3
	0829 410 Field Experiences in Education, or equivalent	1-3

Note: All students must satisfy the course requirement in the Human and Intercultural Relations area. The course to meet this requirement must be selected from the approved list or its equivalent in consultation with the advisor.

B.	Required Courses	9 sh
	Major Department Methods	3
	0829 0400 Teacher, School and Society*	3
	Educational Foundations elective selected from among:	
	0821 520 Development of Educational Thought	
	0821 521 Contemporary Educational Thought	
	0821 540 Social Forces and Education	3
	*May be taken concurrently with courses in Area V.	
II.	Education Sequence	12 sh
A.	0842 564 Dynamics of Group Processes	3
	0824 503 and Methods of Research	3
B.	Other education electives	6
	Graduate courses not specifically designed for preparation or certification in some other areas of education may be selected with approval of the departmental advisor.	
	If, in the opinion of the Dean of the School, the student has essentially achieved the objectives of part of the program, that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.	
III.	Teaching Discipline Courses	6-9 sh
	Graduate courses in the teaching discipline which are covered by the certificate or serve other needs and interests of the students are selected with approval of the departmental advisor.	
IV.	Cultural Electives	3-6 sh
	With approval of the advisor, the student selects courses to extend or broaden his general education.	
	Note: Areas III and IV must total at least 12 credits.	
V.	Field Experience (Practicum)	10 sh
	0829 411 Supervised Student Teaching	8
	0829 401 Seminar in Professional Education	1
	0829 412 Senior (Community) Field Experience	1
	Minimum: 43 semester hours	

Notes:

1. These requirements in effect for students matriculated after April 1976.
2. The program requires a comprehensive examination. This requirement may be completed in conjunction with a three credit course (0829 600 MAT Seminar Related Instructional Thought & Practices) designed to prepare candidates for the examination. See Graduate Advisor for information.

CURRICULUM AND TEACHING

Course Descriptions

B 0829 521 SEMINAR: PROBLEMS OF A CLASSROOM TEACHER 1-3 sh

Reviewing, evaluating and relating teacher aide and student teaching

experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after field experience.

B 0829 522 INNOVATIONS IN TEACHING 3 sh

New media and strategies, novel teaching roles, individualized instructional programs, classroom group dynamics and experimental school organizations. Team teaching utilized where feasible. The student prepares an innovation proposal.

Prerequisite: At least one year of teaching experience.

B 0829 523 EDUCATION IN THE INNER CITY 3 sh

The urban school through the eyes of city youngsters, teachers and other educational personnel. Influences of social and economic forces; poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluation of federal and other projects, innovative teaching and local action. Student prepares a proposal for improvement of an urban school situation.

B 0829 525 INNOVATIVE DEVELOPMENTS IN EDUCATION: CONTEMPORARY PROGRAMS 6 sh

A combination of a survey and in-depth analysis of innovations in the educational realm. The course will focus on the availability of resources and experts in the field. Demonstrations, lab work shops and presentations by people currently involved in innovative programs will be emphasized in addition to the study of numerous innovative areas.

B 0829 530 PRINCIPLES OF CURRICULUM DEVELOPMENT 3 sh

Philosophic, social and economic forces in our society that have determined and will determine the pattern of curriculum in American education in the American public schools from K-12 grades. Accepted manner of designing such curricula and professional bodies and individuals who play leading roles in the process of curriculum design. Connection of community interest and power structures in society which are related to the professional decisions.

Prerequisite: 1½ years teaching experience.

B 0829 531 CURRICULUM CONSTRUCTION IN THE ELEMENTARY SCHOOL 3 sh

Reviewing and bringing up-to-date basic curriculum development concepts; curriculum construction in a modern elementary school; creating an elementary school curriculum in a specific field for one or more grade levels.

Prerequisite: 0829-0530.

B 0829 532 MIDDLE SCHOOL CURRICULUM AND ORGANIZATION 3 sh

Emerging curriculum of the rapidly developing middle school. Organization of pupils, instruction, media and facilities. Recent social changes and educational innovations; practices in typical middle schools; developing instructional strategies.

Prerequisite: 0829-530.

B 0829 533 CURRICULUM CONSTRUCTION IN THE SECONDARY SCHOOL 3 sh

Secondary school curriculum and the needs of a changing civilization. Effective means of curriculum construction.

Prerequisite: 0829 530.

B 0829 534 STRATEGIES FOR CURRICULUM CHANGE 3 sh

Principles and concepts from Sociology, Social Psychology, Educational Administration, and curriculum applied to education. Opportunity to develop change strategies for particular field settings.

Prerequisite: One and one-half years of successful teaching experience under certification.

B 0829 535 DESIGNING CURRICULUM FOR AFFECTIVE AND HUMANISTIC EDUCATION 3 sh

The design and implementation of curricular approaches to emotion and process phenomena in the school; evolution, theory and current practice experientially evaluated. Workshops to devise original design models, and simulative and micro-teaching sessions to demonstrate competence in their application.

Prerequisites: 0829 530, and 2001 200 Educational Psychology

B 0829 536 CURRICULUM AND TEACHING IN CAREER EDUCATION PROGRAMS 3 sh

Overview of the broad objectives and philosophical bases for career education programs; analyses of selected case studies of career education programs in existence; analysis and evaluation of the process of curriculum development in career education programs; evaluation of selected resources and instructional strategies used in career education programs.

B 0829 537 THE STUDY OF TEACHING 3 sh

The teaching process, the varieties of teaching models and metaphors, underlying philosophical considerations, and the relationship between teaching and learning outcomes.

Prerequisites: Three years teaching experience.

B 0829 538 DISCIPLINE AND GROUP MANAGEMENT IN THE CLASSROOM 3 sh

Course designed to enable teachers to more effectively manage classroom behavioral problems. Classroom management will be examined as distinct from and requisite for effective instruction. Several unified managerial approaches will be studied. Course will culminate with opportunities to practice the selection and application of specific managerial techniques to a range of simulated classroom situations.

Prerequisites: 2001 200.

B 0829 540 TEACHER CONSTRUCTION OF TESTS AND EVALUATION 1 sh

To provide the student with the opportunity to become knowledgeable and skillful concerning test and scale construction.

B 0829 541 INDIVIDUALIZED LEARNING (MINI COURSE) 1 sh

To help the teacher develop materials and techniques which will help him/her to make adaptations to the needs of individual students.

B 0829 542 CURRICULAR RELEVANCY (MINI COURSE) 1 sh

To study the relationship of the school structure, curricular, and teaching practices to the problem of making education meaningful and significant to the student.

B 0829 545 THEORY AND PRACTICE OF TEACHING THE BILINGUAL CHILD IN CONTENT AREAS 3 sh

Development of competencies in the theory, practice, methodology, and teaching the bilingual student in content areas, i.e., Social Studies, Language Arts, Mathematics and Science. Special emphasis is given to the evaluation of methodology, and to instructional materials available for bilingual students. Attention will also be given to the study of operational programs with (as far as practicable) visitation and observation.

Prerequisite: Required for Bilingual certification.

B 0829 546 EDUCATION OF THE GIFTED AND TALENTED 3 sh

Course will focus on the components necessary for planning and implementing program for gifted and talented students: definition and identification procedures, alternative organizational patterns, curriculum design, instructional strategies and materials, teacher selection and program evaluation.

Prerequisite: Educational Psychology

B 0829 600 MAT SEMINAR: RELATING INSTRUCTIONAL THOUGHT AND PRACTICES 3 sh

Seminar course providing in-depth study of selected topics related to current classroom problems based on sound education theory and practice. The comprehensive examination for the M.A. (Major in Teaching) will be based on this course.

Prerequisite: Completion of 30 sh in MAT Program.

B 0829 605 PRACTICUM IN TEACHING 5 sh

The student initiates and completes an independent study project within the fields of curriculum and instruction.

Prerequisite: Approval of Advisor.

B 0829 610 INDEPENDENT STUDY IN CURRICULUM AND TEACHING 1-3 sh

An opportunity for practicing teachers to develop and implement curricula under the guidance of curriculum development specialists. Student should discuss proposal with a faculty sponsor in the Department of Curriculum and teaching and secure permission prior to registration. Especially appropriate for teachers involved in T&E planning.

Prerequisite: 0829 530 Principles of Curriculum Development

**B 0829 635 RESEARCH SEMINAR IN CURRICULUM
CONSTRUCTION**

3 sh

Individual advanced work in curriculum construction. Admission upon approval of the instructor.

Prerequisites: 0829 530 and 531 or 532 and 533.

EDUCATIONAL FOUNDATIONS

Chairperson: Dr. Thunder Haas

The Department of Educational Foundations has the dual responsibility of servicing and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new, innovative programs. In keeping with these professional responsibilities, the department offers foundations courses for the preparation of public school educators, and at the same time tries to satisfy specialized demands beyond the limits of the public schools.

Course Descriptions

C 0821 520 DEVELOPMENT OF EDUCATIONAL THOUGHT 3 sh

Philosophic assumptions behind various educational theories from classical to modern schools of thought. Realism, idealism, and naturalism. Plato, Aristotle, Epicurus, Locke, Rousseau, Aquinas and others.

C 0821 521 CONTEMPORARY EDUCATIONAL THOUGHT 3 sh

Critical evaluations of schools of philosophy which have contributed to educational thought in modern times. Pragmatism, progressivism, existentialism, perennialism, reconstructionism, and others. Current trends and problems, principles underlying educational theory and practice.

C 0821 522 PRAGMATISM IN EDUCATION

3 sh

An intensive study of the doctrines and principles developed in the writings of John Dewey and his followers, with special reference to critical issues in education today. Introduction into pragmatic thought through the writings of Dewey, Pierce, and James, and the implications of this philosophy studied through the works of Kilpatrick, Counts, Bode, Childs, Bramald, and others.

C 0821 523 EXISTENTIALISM IN EDUCATION

3 sh

Existential motifs in Sartre, Kierkegaard, Nietzsche, Heidegger, Buber and Camus with emphasis on the implications for educational aims, curricula, methods and values. Works of Morris, Kneller, Greene and Happer, who have begun to define existentialism for education today.

C 0821 525 HUMAN VALUES AND EDUCATION 3 sh

Students examine the different theories of moral development with an emphasis on their philosophical as well as psychological and social dimensions. Conflicting value theories are studied with a view toward consideration of alternative approaches to moral education in our schools.

C 0821 530 FOUNDATIONS OF BILINGUAL/BICULTURAL EDUCATION 3 sh

Survey and introduction to bilingual schooling in the U.S. with special reference to historical backgrounds typology and definitions programs, practices, and staff development overview of court decisions and legislation affecting bilingual education.

C 0821 532 INTERPERSONAL RELATIONS OF CHILDREN OF PUERTO RICAN BILINGUAL/BICULTURAL HERITAGE 3 sh

Survey and analysis of interpersonal relations of Puerto Rican children, including examination of cultural life style, psycho-social development, family socialization process and self-identity, and economic situation, to enable the teacher of Hispanic-American students to deal effectively, constructively, and empathetically with them.

C 0821 535 PLURALISM IN BILINGUAL EDUCATION AND AMERICAN SCHOOLS 3 sh

Approaches to cultural and ethnic pluralism are related to specific types of bilingualism in American Education. Efforts of various ethnic groups to have children attend public schools and private schools during the same day; bilingual/bicultural approaches related to specific immigrant groups, to their culture and religion, and to the specific social roles they came to play in American society.

C 0821 560 COMPARATIVE STUDIES OF EDUCATIONAL SYSTEMS 3 sh

An examination of educational institutions and systems in various areas of the world with particular attention given to: the relationship between social structure and types of educational institutions; the conflict between traditional and modern education; the nature of the profession on the secondary and college levels; and student movements for educational change.

C 0821 561 EDUCATION IN WESTERN EUROPE 3 sh

Variations in educational thinking and practices in selected countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the relationship between school systems and their cultural contexts.

C 0821 564 EDUCATION IN LATIN AMERICA 3 sh

The basic Latin American social, economic and cultural structures and how they relate to secondary school and university systems.

C 0821 571 EDUCATIONAL FORCES IN CORRECTIONAL INSTITUTIONS 3 sh

Historical development of correctional education in the U.S. and the various functions of the present state-county correctional institutions and programs in New Jersey with specific focus on the student populations served, relevant elements of the criminal justice system, institutional classification procedures, and pre-and post-release services available to the offender. Visits to correctional institutions will be scheduled.

C 0821 580 TEACHING PHILOSOPHY TO CHILDREN 9 sh

Skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials in philosophy for children as well as the history of philosophical ideas which form an essential component of the approach.

(This course will not count toward the undergraduate major in Philosophy)

EDUCATIONAL LEADERSHIP

Chairperson: Dr. Anne C. Castens

Graduate Advisors:

Educational Leadership:

Administration and

Supervision

Reading:

Research and Evaluation:

Media and Technology in

Education:

Dr. Laurence Bellagamba

Dr. Anne Castens, Dr. William Cuff,

Dr. Frank Merlo,

Dr. David Weischadle

Dr. Joseph Brunner,

Dr. Maria Schantz

Dr. Gerhard Lang

Dr. Grosvenor Rust

Educational leadership, working with other departments of the College and the School, prepares educational leaders in the broadest sense. Programs of graduate study leading to the Master of Arts in Administration and/or Supervision, Reading, and to post-M.A. studies, are offered. In addition, the department offers courses at the graduate level in education research and evaluation, media and technology in education, and reading.

Although the graduate programs are directed toward certification as Supervisor, Principal, School Administrator, Business Administrator, Reading Specialist or Media Specialist, a comprehensive study of the field of educational leadership is encouraged.

Certification programs are also available to those holding M.A. degrees in a subject area and desiring certification as supervisors or administrators.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION

Three years of successful teaching experience under certification are required for certification as supervisor or administrator.

Our programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. They combine study with close observation and practice in various communities and agencies. The graduate programs in the department prepare students for positions as:

1. major administrative or supervisory personnel at all levels of educational systems.
2. educational managers and planners in the media fields. (e.g. media specialist)
3. reading specialists or consultants.
4. educational researchers, evaluators and testing specialists.

Our effort is to select candidates carefully and lead them to be able to:

1. develop a personal philosophy of education and social ethic consistent with related theories of learning and human development.
2. develop characteristics required for effective leadership in education.
3. analyze educational organizations, and plan programs and strategies for increasing organizational effectiveness.
4. develop techniques to facilitate interpersonal and group problem solving and decision making.
5. develop skills in managing change and conflict in educational endeavors.
6. interpret research findings and design and implement research techniques to their organizational needs.

ADMISSION REQUIREMENTS

In addition to the admission requirements for graduate study at Montclair State College students wishing to matriculate into the Master of Arts program in administration and supervision in the Department of Educational Leadership must first complete requirements listed in Phase I of the program or be enrolled in the last course in Phase I.

Admission to Phase I (pre-matriculation) requires:

1. A valid teaching certificate issued by a State Department of Education.
2. One and one-half years of successful teaching experience under contract or other employment judged as suitable educational experience by the department.

Students who wish to move from Phase I (pre-matriculation phase) to full matriculation in the program must make application to the Department of Educational Leadership.

The process leading to full matriculation includes:

1. A departmental interview
2. A matriculation examination scheduled at the time of the matriculation interview
3. An updated statement of personal goals written at the time of the matriculation interview

Other requirements for full matriculation include:

1. Successful completion of Phase I requirements (or completing last course).
2. Two years of successful teaching experience under contract.
3. Recommendations from three educational leaders familiar with the professional work of the candidate. One recommendation must be from an instructor in Phase I.
4. Competency in written and spoken English as determined by the matriculation interview and the updated statement of goals.
5. Personal characteristics of leadership.

A student must apply for pre-matriculation before completing six semester hours of course work in Phase I of the Administration and Supervision program in the Department of Educational Leadership in order to determine the student's eligibility for the program.

Transfer students wishing to have recognized prior course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

PROGRAM REQUIREMENTS

- | | | |
|------|---|----------|
| I. | Phase I Requirements | 12 sh |
| | 0824 503 Methods of Research | 3 |
| | A graduate course offered in the social and behavioral sciences humanities, approved by advisor | |
| | 0827 510 Educational Administration I | 3 |
| | 0842 564 Dynamics of Group Process or the successful completion of a course in group dynamics at the graduate level of any accredited college, or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institution | 3 |
| II. | Phase II Requirements | 9 sh |
| | 0829 530 Principles of Curriculum Development | 3 |
| | 0827 540 Supervision I (Principles) | 3 |
| | 0827 520 Systems Analysis | 3 |
| III. | Phase III Requirements | 12-21 sh |
| | 0827 615 Field Experience in Administration and Supervision | 3 |

Electives to be selected after consultation with the advisor, and listed in the Master of Arts work program. They may be selected to satisfy certification requirements. Certain courses outside the School may be selected. A concentration in Media or Educational Research and Evaluation is possible with Supervisor's Program.

IV. Comprehensive Examination

Minimum: 33-36 semester hours

EDUCATIONAL LEADERSHIP

Course Descriptions

ADMINISTRATION AND SUPERVISION

D 0827 509 ADMINISTRATION OF EDUCATION AND TRAINING PROGRAMS 3 sh

This course prepares the present or prospective administrator to manage an education or training program in a non-school setting. Administrative theory, organizational functions, personnel and staff requirements as well as program design and development will be examined and studied. The course is designed for the educational administrator in both public and non-public agencies as well as in profit-making or non-profit organizations.

D 0827 510 EDUCATIONAL ADMINISTRATION I 3 sh

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories considered in the educational setting. Impact of environmental and personal forces on organizational behavior.

Prerequisite: One and one-half years of successful teaching under certification.

D 0827 511 EDUCATIONAL ADMINISTRATION II 3 sh

Processes and findings of organization science applied to educational problems. Frameworks for instruction, personnel, finance, facilities, service and public participation at the school district level. Emphasizes issues, trends and contemporary problems.

Prerequisite: 0827 510.

D 0827 512 ADMINISTRATION OF ELEMENTARY SCHOOLS 3 sh

Educational leadership required for effective elementary school organization and administration. Changing role of the principal, his/her relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

Prerequisite: Educational Administration 0827 510.

D 0827 513 SECONDARY SCHOOL ADMINISTRATION 3 sh

Special administration problems of the junior and senior high school. Recruitment of staff, scheduling of teachers and students, department organization and school morale, and recent experiments of organizational structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to help design education as a continuous process. Students write a paper on a special administrative problem.

Prerequisite: 0827 510.

D 0827 514 VOCATIONAL SCHOOL ADMINISTRATION 3 sh

Characteristics, needs, problems and organizational patterns of vocational schools. Experience, procedures, practices for appraising programs and individual achievement. Identification and assessment of current issues and trends in technical and vocational education as an integral part of the total school program.

Prerequisite: 0827 510.

D 0827 520 SYSTEMS ANALYSIS IN EDUCATION 3 sh

Latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curriculum or administrative mode. Simulation techniques in classroom-oriented activities.

Prerequisite: 0827 510 and 0829 530.

D 0827 521 EDUCATION LAW 3 sh

Legal-theory, practical politics, relationship of school district organization to other units of government, appellate function of the State Commissioner of Education and the State Board of Education, New Jersey school laws (Title 18A of the revised statutes) and rules and regulations of the State Board of Education and its decisions. New Jersey school legal structure compared with that of other states.

D 0827 522 USE OF COMPUTERS IN EDUCATIONAL ADMINISTRATION 3 sh

This introductory course provides for the school administrator an overview of the computer, its development and applications in education, and the nature of the computer operational requirements in an educational organization. Also included will be the elements of an educational management information system (EMIS), in such areas as testing, record keeping, attendance and reports preparation.

Prerequisite: D 0827 510.

D 0827 523 SCHOOL PLANT PLANNING 3 sh

The relationship between educational facilities and educational programs. Site selection, development of educational specifications, the physical environment, selection of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities.

Prerequisite: 0827 510.

D 0827 526 SCHOOL BUSINESS ADMINISTRATION 3 sh

Role of school business administration in the public school. Various functions, structures and techniques of operation. Simulation techniques utilized to construct both a traditional and PPBS budget.

Prerequisite: 0827 510.

D 0827 527 SCHOOL DISTRICT PLANNING AND POLICY-MAKING 3 sh

This course will focus on the rules and regulations of the local school districts, how they are developed, what forces are involved in their

development, and what roles the educational administrator plays in this total process. The course will explore the planning and decision-making process which leads to the establishment of local school board policy as determined through local, state and federal policy.

Prerequisites: 0827 510, 0829 530, Instructors Permission.

D 0827 531 PROGRAM PLANNING AND DEVELOPMENT 3 sh

This course provides education and training personnel with experience in the principles and techniques of designing training programs in the organization setting. Special attention will be placed on organizational needs analysis and program development in skills areas and staff development. Students will design a total program and individual lessons for education and training efforts in a variety of simulated settings.

Prerequisites: 0827 509, 0827 542.

D 0827 540 SUPERVISION I 3 sh

School personnel as principals, coordinators and department and subject area supervisors in elementary and secondary schools. Contribution of supervisors in instruction in supporting the professional work of classroom teachers.

Prerequisites: Two years of teaching experience, 0827 510.

D 0827 541 SUPERVISION II 3 sh

Applies theories of supervision to practical situations in particular grade levels and/or in special subject fields. Sharp focus on improving the teaching skills of colleagues. Critical analysis and improvement of local teacher evaluation procedures. Consideration of the impact of contemporary educational issues on school improvement and in-service education. Preparation of professional documents. Course modified in terms of student's needs.

Prerequisites: 0827 540 and 0827 510.

D 0827 542 SUPERVISORY SKILLS FOR EDUCATION AND TRAINING PERSONNEL 3 sh

This course provides the present and prospective education and training supervisor in a public or nonpublic, profit or nonprofit setting with instruction in course/program assessment, personnel selection procedures, staff evaluation processes, and material/equipment procurement. Also included is training manual development and use.

Prerequisites: 0827 509.

D 0827 560 WORKSHOP SEMINAR IN HIGHER EDUCATION 3 sh

Overview of structure and functioning. History, philosophy, sociology and politics of the College as a unique and dynamic institution in American society. Educational opportunity and the organization of higher education, open admissions status, trends and implications, minority group youth in higher education, student initiatives for reform, faculty governance, etc.

Prerequisite: Permission of Instructor.

D 0827 565 TWO YEAR JUNIOR COLLEGE**3 sh**

History, purpose, patterns and trends of the two-year college, including the junior college, the community college and university extension centers.

D 0827 610 THEORY AND RESEARCH IN ADMINISTRATION**3 sh**

Applies organization science to individual problems in educational administration. Experience in the internship or field experience are given scholarly analysis.

Prerequisite: Permission of Instructor.

D 0827 611 ADVANCED SEMINAR ON EDUCATIONAL ISSUES**3 sh**

Final integrating experience in the leadership program. Implications for educational administration of major contemporary issues and trends.

Prerequisite: Permission of Graduate Advisor.

D 0827 615 SUPERVISED FIELD EXPERIENCE IN ADMINISTRATION AND SUPERVISION**3 sh**

Students are assigned work within an educational agency, operating at the level and in the domain of their professional speciality. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the administrator. A written report on the activity or research paper will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

Prerequisite: Permission of a Graduate Advisor.

D0827 616 INTERNSHIP IN EDUCATIONAL ADMINISTRATION**6 sh**

Full semester assignment of guided work within an educational institution's administrative office. Sixth year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for positions, scheduling, inservice professional development, special committee leadership, projects that influence curriculum building arrangements and budgets. The sixth year student may be required to take 0327 610 or 0827 611 for three additional semester hours during this internship. In all cases, students will complete the research project as a part of the internship assignments. (Open only to post-master study except for special permission of Graduate Advisor.)

Prerequisite: Permission of Graduate Advisor.

D 0827 618 INDEPENDENT STUDY IN EDUCATIONAL ADMINISTRATION 1-3 sh

Individual pursuit of a research topic in the area of educational administration or supervision under the direction of a departmental (A and S) faculty member culminating in a written document of scholarly proportion and integrity. Arrangements for this course should be made with department chairman or adviser.

Prerequisites: Open only to advanced matriculated students in programs with permission of department (A and S).

D 0827 619 SEMINAR IN ADMINISTRATION, SUPERVISION & CURRICULUM 3 sh

Intensive study of administrative and supervisory problems suggested by educational events and trends of the year. Each student does an individual piece of research which is reported to the class. This represents advanced work which depends upon previous study or experience in educational administration or supervision.

Prerequisite: Permission of Graduate Advisor.

D 0827 622 SCHOOL FINANCE 3 sh

Current economic environment, State, local and federal taxation, state school aid theory and practice; school district indebtedness; statutory school budget and fiscal controls, various cost-quality instruments and role of school, fiscal structure in relation to local, state and federal governments.

Prerequisite: 0827 510 0827 521.

D 0827 623 ADVANCED SCHOOL PLANT PLANNING 3 sh

Advanced course in school plant enables student to plan an innovative educational facility. Independent (contract) study approach, coupled with scheduled critiques with professor is main method of instruction. Prerequisite: A course in school plant planning 0827 523 and 0827 510.

D 0827 625 SCHOOL PLANT MAINTENANCE AND OPERATION 3 sh

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

Prerequisite: 0827 510

D 0827 643 STAFF PERSONNEL ADMINISTRATION 3 sh

Personnel practices and problems in current school situations. Roles of policy-making bodies, the public, professionals, para-professionals and general staff in effective communication for the optimum use of human resources. Problems relate to such areas as recruitment, selection, retention and evaluation of staff.

Prerequisite: 0827 510 and 0827 540.

Emphasis on in-service education for practicing administrators and/or supervisors. Topics will vary in accordance with needs, concerns, or requests of school districts or professional organizations desiring service. Current problems are given priority. Credits to be dependent upon number of hours work-shops and/or seminars are in session.

Prerequisite: Participants are to be practicing administrators and/or supervisors.

ADVANCED GRADUATE STUDY IN ADMINISTRATION AND SUPERVISION

Students holding a Master of Arts degree and New Jersey certificate for Principal, who wish to continue planned graduate study of thirty additional semester hours will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision, and make a satisfactory grade on a comprehensive examination covering the field. Such a thirty-hour program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for Administration (Superintendent of Schools) in New Jersey.

REQUIREMENTS FOR THE MASTER OR ARTS DEGREE IN READING

ADMISSION REQUIREMENTS

Provision is made in this program to matriculate students who have demonstrated interest and ability suitable to reading education. Applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Letters of recommendation from the school system superintendent or the school building principal will be acceptable. Final matriculation is the departmental decision; prerequisites will be determined by departmental advisement.

PROGRAM REQUIREMENTS

- | | | |
|-----|--|-------|
| I. | Basic Professional Education | 6 sh |
| | 0824 503 Methods of Research (required) | .3 |
| | Elective in School of Educational and Community Services ... | .3 |
| II. | Required Courses in Reading | 12 sh |
| | 0808 500 The Nature of Reading | .3 |
| | 0808 511 Case Studies of Reading Difficulties | .3 |
| | 0808 513 Corrective and Remedial Reading I | .3 |
| | (written permission required) | |
| | 0808 505 Research Seminar in Reading | .3 |
| | (written permission required) | |

- III. Elective Courses in Reading6 sh
Students must take additional reading electives in order to meet specialization requirements
- 0808 501 Techniques of Reading Improvement in Secondary Schools3
- 0808 502 Administration and Supervision of Reading Programs3
- 0808 503 Literature for Adolescents3
- 0808 504 Reading Needs of Adult Learners3
- 0808 506 Reading Resources3
- 0808 509 Teaching of Communication Skills3
(Open to M.A.T. and certification students only)
- 0808 510 Field Experience in Reading3
- 0808 512 Seminar in Reading Difficulties3
- 0808 514 Corrective and Remedial Reading II3
(written permission required)
- IV. Free Electives6 sh
Any graduate courses offered by the College
- V. Additional Department Requirements
- A. Supervised clinical experience within the framework of required courses and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Reading Center.
- B. A written comprehensive examination, supplemented if necessary by an oral examination, or an equivalent comprehensive experience determined by the Department.
- C. A reading portfolio containing representative work and personal contributions in reading will be compiled by the student. This portfolio will be used to diagnose students' strengths and weaknesses as they progress through the program.

Minimum: 33 semester hours

In March 1976, the New Jersey Board of Education passed a proposal for a six-semester hour or two-course requirement in the teaching of reading as it pertains to the field for which certification is being sought. This requirement became effective September 1977. Courses are available through the Reading Program.

Students seeking teacher certification, therefore, must complete the following reading courses prior to filing for certification:

- 0808 407 Developmental Reading: Principles and Techniques Part I3
- 0808 408 Developmental Reading: Principles and Techniques Part II3

READING

Course Descriptions

D 0808 500 THE NATURE OF READING 3 sh

The foundations of reading: the nature of the reading process, readiness, beginning instruction, current practices in the teaching of reading in early childhood and elementary education, a reappraisal of the role of reading in a technological society.

D 0808 501 TECHNIQUES OF READING IMPROVEMENT 3 sh IN THE SECONDARY SCHOOL

The improvement of non-clinical reading difficulties in the content subjects. For the subject area teacher and the beginning reading specialist. Secondary school reading needs, and specific suggestions for guiding the slow, average and gifted student in a classroom situation.

D 0808 502 ADMINISTRATION AND SUPERVISION OF 3 sh READING PROGRAMS

The more complex aspects of organizing and administering reading programs: Theory and techniques of leadership, program development, organization of in-service programs developing a budget, methods of evaluation, etc. Essential background for reading specialists to establish or administer a functional school reading program.

D 0808 503 LITERATURE FOR ADOLESCENTS 3 sh

Background for the development of recreational reading programs in junior and senior high schools. Literature written for students, as well as literature intended for adults but read widely by adolescents. Criteria for book selection, censorship, role of mass media, minority group identification through books, bibliotherapy, bibliography, and the importance of the librarian.

D 0808 504 THE READING NEEDS OF ADULT LEARNERS 3 sh

For teachers of out-of-school youth and adults. Language learning and related psychological factors; methodology and reading instruction; literature and the reading program and innovations in reading instruction.

D 0808 505 RESEARCH SEMINAR IN READING 3 sh

Problems in the field of reading suggested by educational events and trends, members of the class, and educational movements in New Jersey, the country and the world. Each student will execute and report an individual research effort. Written permission required.

D 0808 506 READING RESOURCES 3 sh

Software, hardware, multi-media and multi-sensory materials available in the schools and in adjunct facilities; philosophic, psychological and academic considerations of reading resources. Video tape demonstrations of materials.

D 0808 509 THE TEACHING OF COMMUNICATION SKILLS 3 sh
Abilities, limitations and needs of students in speaking, listening, reading and writing. Adaptations in curricula, assignments and procedures to the levels of students in a classroom; remedial measures. Speech, reading and English instructors involved in course. Open to M.A.T. and certification students only.

D 0808 510 FIELD EXPERIENCE IN READING 3 sh
Agencies and programs dealing with reading. Students observe, participate and report activities of the agencies. For students in long-range research with limited teaching experience, who need additional field and clinical experience. Independent study.
Prerequisite: Permission of the Advisor to the M.A. Program in reading.

D 0808 511 CASE STUDIES OF READING DIFFICULTIES 3 sh
Techniques for diagnosing reading difficulties; the most frequently used tests and inventories; the actual testing of a child with reading problems. Group and individual tests, survey and diagnostic tests, and standardized and informal tests; reporting to parents, schools and agencies.
Prerequisites: 0808 500 and permission of the instructor. Additional diagnostic hours will be arranged.

D 0808 512 SEMINAR IN READING DISABILITIES 3 sh
Significant problems in the field of reading disability; Historical and emerging models used in reading diagnosis.

D 0808 513 CORRECTIVE AND REMEDIAL READING: 3 sh
PART I CAUSATION

For advanced students and specialists involved in some aspect of remedial instruction. Part I Investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II Selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written permission of the instructor.

D 0808 514 CORRECTIVE AND REMEDIAL READING: 3 sh
PART II TREATMENT

For advanced students and specialists involved in some aspect of remedial instruction. Part I Investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II Selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written permission of the instructor.

PROGRAM LEADING TO THE READING SPECIALIST CERTIFICATE

Minimum Requirements: Initial teaching certificate, two years of teaching experience and a program of 30 hours of study. See advisors for further information.

EDUCATIONAL RESEARCH AND EVALUATION

Course Descriptions

D 0824 503 METHODS IN RESEARCH 3 sh

The theory and methods of historical, descriptive and experimental research: formulation of a research problem; use of bibliographical sources and reference materials; statistics and measurement in research; types and instruments of research; data collection and analysis; writing the research report and career opportunities in research.

D 0824 504 ACTION RESEARCH FOR TEACHERS 3 sh

Principles and techniques of research applicable to classroom situations. Various kinds of classroom research are studied and analyzed. Practice provided in planning and outlining a research project, the development of experimental designs and evaluation of the structure and outcomes of classroom research. Open to M.A.T. and certification students only.

D 0824 505 INTERPRETATION AND APPLICATION OF EDUCATIONAL RESEARCH 3 sh

Provides an understanding of research studies dealing with current issues in education. Representative research and evaluation studies will be critically analyzed.

Prerequisite: A course in statistics.

D 0824 507 MEASUREMENT AND EVALUATION: COGNITIVE DOMAIN 3 sh

Theory and practice to develop comprehension of and skill in constructing tests in the cognitive domain, such as intelligence, achievement and aptitude tests. Basic measurement concepts relating to test construction. Each student will carry out a project geared to his/her needs.

Prerequisite: A basic course in descriptive statistics.

D 0824 508 MEASUREMENT AND EVALUATION: AFFECTIVE DOMAIN 3 sh

Theory and practice to develop comprehension of and skill in constructing tests in the affective domain, such as opinionnaires, interest tests, self concept tests, personality inventories, and attitude scales. Basic measurement concepts relating to test construction. Each student will carry out a project geared to his/her needs.

Prerequisite: A basic course in descriptive statistics.

Prerequisite: 0824 507 CRS in similar field.

D 0824 578 TESTING AND EVALUATION**3 sh**

Principles and practices of educational and psychological testing and evaluation relevant to professionals in human services, communication sciences and disorders, education, and related fields. Historical/philosophical orientation; place of testing in instructional and remedial programs; statistical concepts underlying measurement; validity, reliability, response set; construction of tests and measurement instruments; evaluation and interpretation of testing data; use and misuse of testing data; reporting data to students, parents and colleagues; critical analyses of selected standardized intelligence, ability and personality tests; experimental tests and measurement instruments. Course project geared to individual student needs.

**D 0824 580 PUPIL LEARNING PROCESS AND
MEASUREMENT (PARTIAL IMPLEMENTATION
OF A STATE SYSTEM OF THOROUGH
AND EFFICIENT EDUCATION)****3 sh**

Study of the learning process and its measurement as it applies to the classroom, the school, and the school district, for instructional and administrative school personnel. Design, implementation and appraisal of the instructional aspects of the new Jersey administrative code (Title 6-Education) and the New Jersey statutes (Title 18A-Education) (Thorough and efficient education).

D 0824 603 SEMINAR IN RESEARCH**3 sh**

Opportunity to carry out a research project-historical, descriptive or experimental in nature — culminating in a written report.

Prerequisite: 0824 503 or equivalent.

**D 0824 630 EVALUATION OF EDUCATIONAL PROGRAMS
AND PERSONNEL****3 sh**

Problems, issues, and procedures involved in designing and carrying on evaluation studies dealing with institutions, programs, curricula, and personnel performance. Students will undertake an evaluation project and write a project report. Course content and requirements will be geared to individual needs of students.

Prerequisite: Permission of advisor.

**D 0824 650 INDEPENDENT STUDY IN EDUCATIONAL
RESEARCH AND EVALUATION****3 sh**

Designed for individuals who, in consultation with advisor, wish to undertake an in-depth analysis of a specific problem.

Prerequisite: Permission of the Advisor.

MEDIA AND TECHNOLOGY IN EDUCATION

The Instructional Media Courses offered below are available as a sequence of study to meet the educational media specialist certification requirements. Persons wishing to prepare for one of the two certificates should arrange for a conference with the proper advisor.

A Master's Degree and either a standard New Jersey teacher's certificate or an Associate Educational Media Certificate are required as prerequisites to the issuing of the Educational Media Specialist Certificate. A Bachelor's Degree and a standard New Jersey teacher's certificate are required as prerequisites to the issuing of the Associate Educational Media Specialist Certificate. Course descriptions for the related undergraduate program leading to this last certificate are provided in the undergraduate catalog.

Course Descriptions

D 0841 520 PRODUCTION OF MATERIALS FOR MEDIA TECHNOLOGY 3 sh

For developing advanced proficiency in preparing audio, photographic and graphic materials. Especially for persons charged with materials preparation in media centers. Laboratory instruction.

D 0841 521 DESIGN OF INNOVATIVE CURRICULUM RESOURCES 3 sh

Emphasis systems design, software, program development, creative development of media for special learning situations, basic design of programmed instruction and multi-media techniques.

Prerequisite: 0841 520.

D 0841 525 PHOTOGRAPHIC COMMUNICATION IN EDUCATION 3 sh

Offered for the development of competency with the photographic processes and equipment commonly used in producing educational media. Extensive laboratory and camera work required. Emphasis is on proficient creativity for instructional utilization.

Prerequisite: Approval of instructor as to background in photography and ownership of adequate equipment.

D 0841 540 TELEVISION PRODUCTION IN EDUCATION 3 sh

Combination lecture, laboratory and seminar experiences in television, elements of television set design, functions of floor director, control room operations and basic television directing.

D 0841 541 TELEVISION PROGRAMMING IN EDUCATION 3 sh
 Combination lecture, laboratory and seminar in programming, conceptual creativity, pre-planning, execution of ideas and evaluation of presentations. Selection and design of hardware.
 Prerequisite: Completion of 0841 540 Television in Education Workshop or permission of instructor.

D 0841 550 ADMINISTRATION AND SUPERVISION OF MEDIA IN EDUCATION 3 sh
 Provides training for management of integrated instructional resources programs. Emphasis is on the practical day-to-day problems of control, production, acquisition, utilization, finance, staffing, organization and evaluation for the provision of Media and Technology in educational enterprises. Additional attention is given to community relationships and special services.

D 0841 610 RESEARCH AND DEVELOPMENT SEMINAR IN INSTRUCTIONAL TECHNOLOGY AND RESOURCES 3 sh
 A seminar on application of research findings to the design and utilization of instructional media and resources. Emphasis is on the extraction of practical utilization based upon research findings.

D 0841 615 SUPERVISED FIELD EXPERIENCE FOR EDUCATIONAL MEDIA CERTIFICATION 3 sh
 Students are assigned work within an educational media center, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the media specialist. A written report on the activity will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

The following Senior-Graduate level courses are open to graduate students pursuing certification under the 1974 media certification act. Approval of graduate advisor is required for inclusion in a program of study.

D 0841 401	Fundamentals of Cataloging and Classification	3
D 0841 402	Reference and Bibliography for School Resource Centers	3
D 0841 403	Reading Materials for Children and Youth: Selection and Evaluation	4
D 0841 420	Teaching Materials Workshop	3
D 0841 430	Television Services in a Single School Media Program	3
D 0841 445	Audio Technology in Education	3

ENGLISH AND COMPARATIVE LITERATURE

Chairperson: Dr. Claire Healey

Graduate Advisor: Dr. James Nash

In the Master's program in literature the student will study individual authors and their works intensively, while developing a broader understanding of literary periods, themes, and types. Students are expected to demonstrate the ability to participate in sophisticated scholarly discourse, both orally and in writing. Within the total 33 semester hours of course work, one of four concentrations may be chosen: British Literature to 1745; British Literature 1745 to the Present; American Literature; and Comparative Literature. In addition, courses are offered in such special topics as the film, the use of computers in humanistic studies, and the teaching of composition, literature, and basic writing.

The program serves as continuing training for in-service teachers and as preparation for doctoral-level work, as well as providing intellectual enrichment to students who wish to develop a deeper understanding of literature for its own sake. A significant number of M.A. graduates have, in recent years, gone on to doctoral programs at major universities. Others have found the program to be both useful and enhancing to careers in business and government.

ADMISSION REQUIREMENTS

Candidates for matriculation in the Master or Arts program of this department must show a B average or better in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examinations. Most applicants will have majored in literature (English, comparative, or foreign) at the undergraduate level. However, students with strong academic credentials may apply even if they do not have the recommended background in literature. The graduate advisor will interview each candidate for the program regarding his or her scholastic record and intellectual or professional goals.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENGLISH AND COMPARATIVE LITERATURE

I. Distribution of Course Work

A. British and American Literature

1. Seminar in Literary Research (to be taken near the beginning of the program)3 sh
2. Thesis Writing (to be taken at the end of the program)3 sh

3. A concentration in one of three major areas as follows:9 sh
 - a. British Literature to 1745
 - b. British Literature from 1745 to the Present
 - c. American Literature
4. To be distributed among the remaining two major areas and the area of Comparative Literature9 sh
5. Electives9 sh

Minimum: 33 semester hours

- B. Comparative Literature. In cooperation with other divisions in the School of Humanities and Social Sciences, the department offers students who have superior command of a foreign language (usually French or Spanish) the opportunity to concentrate in Comparative Literature.

Courses are focused on the interrelationships among literatures. Significant authors, ideas, movements, and literary types in different ages and cultures are selected for comparison. (N.B.: Comparative Literature courses, prefixed 1503, are open to all students, regardless of their concentration. Lectures and readings are in English.)

1. Seminar in Literary Research (to be taken near the beginning of the program)3 sh
2. Thesis Writing (to be taken at the end of the program)3 sh
3. A concentration in Comparative Literature9 sh
4. French or Spanish Literature9 sh
5. To be distributed among the three major areas of British and American Literature9 sh

Minimum: 33 semester hours

II. Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language, either by passing a written examination or by earning a grade of B in the French Reading Course (1102-0100), before taking the comprehensive examination or registering for Thesis Writing. Examinations will normally be given in French, German, Russian, Italian, or Spanish. Other languages may be offered with the approval of the department. Students concentrating in Comparative Literature will receive approval of the language of their primary area of study.

The foreign language examination is given on the last Saturdays of February and September. The French Reading Course is offered whenever there is a sufficient number of interested students, usually every other year. Students who wish to take the course should notify the graduate advisor.

III. Comprehensive Examination

All candidates for the master's degree must pass a comprehensive examination. Students concentrating in British or American

literature take a three-hour written test; those concentrating in Comparative literature take a two-hour oral test. Both are designed to test critical ability and familiarity with major works of British, American, and foreign literature. Students must complete one-half of their course work and satisfy the foreign language requirement before taking the comprehensive examination, and must pass the examination before registering for Thesis Writing.

The comprehensive examination is based on a reading list compiled by the student and approved by a committee of the graduate faculty. The student selects at least fifteen major works from those studied in his or her graduate program (in the case of short pieces, a representative group by one author will be considered as one "work"). The list must include at least three of the four major areas of literary study (see Distribution of Course Work, above). In the semester before taking the examination, students should consult with the graduate advisor about the preparation of the reading list. The list must be submitted by the second week of the semester in which the examination will be taken, although earlier submission will increase the student's preparation time, and is strongly encouraged.

The comprehensive examination is given on the last Saturdays of March and October.



ENGLISH AND COMPARATIVE LITERATURE

Course Descriptions

BRITISH LITERATURE

K 1501 500 OLD ENGLISH LITERATURE 3 sh

Specimens of Old English prose and poetry are read in the original language and studied for an appreciation of their literary art. No previous study of Old English is required. The first half of the course is spent on grammar and pronunciation, using prose from the chronicles and other works as examples. Oral recitation is required of all students. Poetry is studied in the second half of the course. Topics include the oral-formulaic tradition, the verse types, and the mixture of Christian and Pagan themes characteristic of the literature.

K 1501 505 CHAUCER 3 sh

An intensive study of *The Canterbury Tales* and other works against their literary and social backgrounds, with special attention to Chaucer's language and to the tools of Chaucerian scholarship. No previous study of Middle English is required.

K 1501 508 SHAKESPEARE STUDIES: TRAGEDIES 3 sh

Shakespeare's tragic drama against a background of classical and medieval theories of tragedy, and in relation to the practice of his contemporaries. Consideration is given to Shakespeare's use of plot sources and to Elizabethan theories of rhetoric.

K 1501 509 SHAKESPEARE STUDIES: COMEDIES 3 sh

Shakespeare's comic art in the light of comic theory and practice from Aristotle to the present. Areas of analysis include Shakespeare's use of Roman and native English comedy, his language, characters, and sources, and the traditions of Shakespearean criticism.

K 1501 510 SHAKESPEARE STUDIES: HISTORIES 3 sh

A study of the ten English history plays. Shakespeare's use of historical sources and variations from historical fact are examined carefully. Shakespearean scholarship, criticism, and production are also covered.

K 1501 511 ELIZABETHAN AND JACOBEOAN DRAMA 3 sh

A comprehensive view of the period of the apex of English drama, from 1550 to the closing of the theaters in 1642. Major works by Elizabethan and Jacobean dramatists other than Shakespeare are studied in the light of medieval English drama and the new Renaissance theories of Shakespeare's contemporaries. Attention is given to changes in subject matter, tone, dramaturgy, and staging during the latter part of the period.

K 1501 512 RENAISSANCE LITERATURE I: PROSE 3 sh

Major prose writers of the sixteenth century, including Erasmus, More, Castiglione, Sidney, Lyly, Nashe, and Hooker. Attention is given to the development of satire, romance, the picaresque, and utopian fiction.

K 1501 513 RENAISSANCE LITERATURE II: 3 sh
POETRY

A study of English poetry of the sixteenth century, a period of major changes. The principal focus is on poets who contributed to the development of the English lyric (Wyatt, Surrey, Raleigh, Spenser, Sidney, Shakespeare). The unique poetry of Edmund Spenser, particularly *The Faerie Queene*, is also examined.

K 1501 515 SEVENTEENTH-CENTURY LITERATURE: 3 sh
POETRY

The poetry of Donne, Jonson, Herbert, Marvell, and Milton, supplemented by historical and intellectual background and by selections from the work of Vaughan, Traherne, Crashaw, Herrick, Suckling, Lovelace, Carew, and Cowley. Stylistic categories such as the metaphysical, the classical, and the meditative are considered in the light of a close critical analysis of the major poetry.

K 1501 516 SEVENTEENTH-CENTURY LITERATURE: 3 sh
PROSE

English prose between the Elizabethan period and the age of Queen Anne, including the development of prose style and the origins of the short narrative, of scientific writing, and of modern literary criticism. Authors include Milton, Pepys, Bunyan, Walton, Burton, Bacon, Brown, and Aubrey.

K 1501 518 MILTON 3 sh
Paradise Lost, *Paradise Regained*, *Samson Agonistes*, and some of the minor works are analyzed intensively. Milton's styles, themes, and techniques are considered in the light of his life and the political and religious controversies of his times. The poetry is also studied in terms of its relation to Milton's Italian and Classical models, his Elizabethan masters, and his contemporaries.

K 1501 520 RESTORATION AND EIGHTEENTH-CENTURY 3 sh
DRAMA

Heroic, comic, and sentimental drama by playwrights from Dryden to Sheridan with emphasis on their reflection of the literary and social climate. Attention is also given to the physical theater and to the composition of the audience.

K 1501 521 THE AUGUSTAN AGE 3 sh

The literature of the Restoration and early eighteenth century in its cultural contexts. Topics include criticism and aesthetics, satire, the new nature poetry, and the relationship between literary forms and philosophical and critical ideas. Emphasis on the works of Dryden, Swift, Pope, Gay, Addison and Steele, and Thomson.

K 1501 525 THE ENGLISH NOVEL FROM DEFOE 3 sh
TO AUSTEN

The rise of the English novel and its various traditions: comic, realistic, satirical, psychological, and gothic. Authors include Defoe, Richardson, Fielding, Smollett, Sterne, and Austen.

K 1501 529 BRITISH ROMANTICISM I: WORDSWORTH AND COLERIDGE 3 sh

The poetry of the two most important writers of the first generation of the Romantic movement in England. Emphasis is on the significance of their poetry in the contexts of the poets' own experience and of the age of democratic and industrial revolution.

K 1501 530 BRITISH ROMANTICISM II: BYRON, SHELLEY, AND KEATS 3 sh

The major works of the second generation Romantics are studied in relation to the experience of their lives and the movements of their time. Attention is also given to their letters and critical writings.

K 1501 531 VICTORIAN STUDIES I: PROSE 3 sh

The responses of the major prose writers of the period to such issues as the rise of a large working class, the sudden growth of cities, demands for political freedom, and the promises and threats of science. The problems of establishing an aesthetic of nonfiction prose are considered. Works by Carlyle, Mill, Arnold, Macaulay, Huxley, Newman, Pater, and Wilde.

K 1501 532 VICTORIAN STUDIES II: NOVEL 3 sh

The Victorian novel in its historical and cultural contexts, with emphasis on the responses of the most vital art form of the age to the unprecedented changes in English life that took place during the era. Works by Thackeray, Trollope, Dickens, the Brontës, Eliot, Meredith, and Gissing.

K 1501 533 VICTORIAN STUDIES III: POETRY 3 sh

The course concentrates on the major mid-Victorian poets, Tennyson, Browning, and Arnold, and to a lesser extent their successors among the Pre-Raphaelites, the Aesthetes, and the Rhymers.

K 1501 535 HARDY, JOYCE, AND LAWRENCE 3 sh

An examination of the fiction of these three writers with special attention to the ways in which their work illuminates the transition to modern fiction, demonstrates the relation between literary consciousness and society, and illustrates the cultural phenomenon of the artist repudiated by society.

K 1501 540 THE MODERN BRITISH NOVEL 3 sh

Innovations in characterization, narrative technique, and theme under the impact of major twentieth-century political, economic, and cultural developments. Works by Forster, Huxley, Waugh, Orwell, Greene, Amis, Murdoch, Lessing, and others.

K 1501 542 THE IRISH RENAISSANCE 3 sh

The Irish contribution to twentieth-century literature and aesthetic theory, specifically to that brand of experimentation, individualism, and internationalism associated with the idea of the modern. Special attention to W. B. Yeats, James Joyce, J. M. Synge, Sean O'Casey, and Frank O'Connor.

**K 1501 597 INDEPENDENT STUDY IN BRITISH
LITERATURE**

3 sh

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate advisor and of the project supervisor is required before registration.

K 1501 600 SEMINAR IN BRITISH LITERATURE

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the British seminar so long as the topic is different each time. Limit: 12 students.

Prerequisite: Instructor's permission.

AMERICAN LITERATURE

K 1501 550 STUDIES IN EARLY AMERICAN LITERATURE

3 sh

All major and several minor American writers of the seventeenth and eighteenth centuries are studied within several contexts: literary, religious, philosophical, and political. Topics include the development of American literature, 1620-1800; the effects of Puritanism and Deism; the concept of the American dream; the originality of the founding fathers; and the extent to which modern American literature and culture reflect the colonial heritage.

K 1501 552 AMERICAN POETRY TO 1912

3 sh

The continuity of American poetry as a national body of literature, with distinctively American themes, subjects, techniques, and critical theories; the shaping influences of English and continental writers; and the impact of American poets on their European contemporaries. Particular emphasis on Poe, Whitman, Emerson, Melville, Dickinson, Crane, and Robinson.

K 1501 555 AMERICAN ROMANTICISM

3 sh

An exploration of the Romantic Movement in America to its culmination in transcendentalism. Works by Emerson, Thoreau, Whitman, Irving, Cooper, and Bryant.

K 1501 556 POE, HAWTHORNE, AND MELVILLE

3 sh

An intensive examination of the writings of the three "Dark Romantics" of the American Renaissance, set against their biographical backgrounds and the literary and historical contexts in which they worked.

K 1501 557 AMERICAN REALISM

3 sh

The development of American realistic fiction, with emphasis on the works of Twain, Howells, and James in relation to their literary heritage.

K 1501 560 MODERN AMERICAN FICTION

3 sh

After a brief examination of late nineteenth-century realism, the major

writers of the twentieth century (up to World War II) are studied with special attention to the critical attitudes of the period and to related scholarship. Authors include Dreiser, Stephen Crane, Sherwood Anderson, Hemingway, and Faulkner.

K 1501 561 MODERN AMERICAN POETRY 3 sh

Beginning with background material on late nineteenth-century poetry, the course examines selected major modern poets. The changing scene in modern poetry is noted, and the reading of contemporary poets is included. Works by Hart Crane, e.e. cummings, Hilda Doolittle, T.S. Eliot, Robert Lowell, Ezra Pound, Wallace Stevens, and others.

K 1501 563 RECENT AMERICAN FICTION 3 sh

Fiction of approximately the last twenty years in the context of American culture and the traditions of American fiction. The course analyzes the characteristics of theme, technique, and sensibility that form the basis of a writer's response to the ambiguities of life in the contemporary world. Works by Bellow, Mailer, Roth, Oates, Updike, Didion, O'Connor, Walker, Godwin, Brautigan, Ellison, Baldwin, and others.

K 1501 598 INDEPENDENT STUDY IN AMERICAN LITERATURE 3 sh

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate advisor and of the project supervisor is required before registration.

K 1501 601 SEMINAR IN AMERICAN LITERATURE 3 sh

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the American seminar so long as the topic is different each time. Limit: 12 students.

Prerequisite: Instructor's permission.

COMPARATIVE LITERATURE

K 1503 512 LITERARY CRITICISM TO 1800 3 sh

Plato, Aristotle, Horace, Longinus, and their imitators and interpreters in the Medieval, Renaissance, and Neoclassical periods are studied for those ideas about the nature and value of literature which have been influential in our culture. Considerable attention is given to relating the critical works to the history, art, and principal writings of each period.

K 1503 513 LITERARY CRITICISM FROM 1800 TO THE PRESENT 3 sh

The break from classical theory (notably by the Romantics) and the search, principally in our own day, for new definitions of the nature and function of literature. Throughout the course, critical theory is related to the history, art, and principal writings of each period.

K 1503 515 ANCIENT TRAGEDY

3 sh

Selected plays of Aeschylus, Sophocles, Euripides, and Seneca in English translation; origins of Greek and Roman tragedy; religion and myth in tragedy; Aristotelian criticism; stage production; the influence of ancient tragedy on modern literature.

K 1503 516 ANCIENT COMEDY

3 sh

Reading, discussion, comparison, and criticism of selected plays of Aristophanes, Menander, Plautus, and Terence. Origins and development, staging, and theories of Old and New Comedy at Athens and of Roman Comedy; mime; farce; influences on later comedy.

K 1503 517 ANCIENT EPIC

3 sh

The *Iliad*, *Odyssey*, and *Aeneid* in English translation. Ancient and modern literary criticism of Homer and Virgil; oral versus literary epic; history, folklore, and saga in the ancient epic; basic epic themes (man as hero, fate, man and the gods, etc.); Homeric and Virgilian influence on subsequent literature.

K 1503 535 THE ENLIGHTENMENT IN EUROPE

3 sh

A comparative study of literature and ideas in eighteenth-century Europe, the course focuses on English, French, and German literature, with some attention to others, including Italian and Spanish. Major literary and philosophical trends are analyzed, including the rational and satirical attack on traditional values and the current of "sensibility" which stressed the powers of the emotions and the senses. Works by Swift, Voltaire, Fielding, Diderot, Johnson, Rousseau, Prévost, Goethe, Lessing, and others.

K 1503 536 THE ROMANTIC MOVEMENT

3 sh

The origins and development of Romanticism in England and Germany are compared with the later triumph of the movement in France. Representative works of Chateaubriand, Goethe, Novalis, Kleist, Hoffman, Heine, Musset, and Nerval are studied, and their themes compared with those of the English Romantics.

K 1503 565 IBSEN, STRINDBERG, AND SHAW

3 sh

Three great forerunners of twentieth-century drama are studied intensively.

K 1503 569 MAJOR NEO-AFRICAN WRITERS

3 sh

Literary analysis of the most accomplished modern authors of African descent in the light of European, American, and African scholarship. Works by Machado de Assis, Sterling A. Brown, Aimé Césaire, Paul Lawrence Dunbar, Leopold Senghor, Gwendolyn Brooks, Nathan Scott, and others.

K 1503 570 THE MODERN NOVEL 3 sh

Selected works by European, English, and Latin American masters, illustrating the evolution of the novel during the twentieth century and the development in fiction of modern concepts of space, time, dreams, and psychology. Works by James, Proust, Kafka, Dos Passos, Woolf, Gide, Mann, Hesse, Stein, Beckett, and others.

K 1503 571 TRENDS IN THE CONTEMPORARY NOVEL 3 sh

A study of eight to twelve novels written since 1950 in English, French, German, Spanish, and Italian. The selections will be distributed evenly among the languages. Emphasis will be upon literary trends common to the contemporary novel regardless of the language in which it is written. Representative authors are Fowles, Ellison, Cortazar, Garcia Márquez, Goytisolo, Sollers, Duras, Böll, Frisch, and Moravia.

K 1503 575 MYTH: ORIGINS AND DEVELOPMENT 3 sh

Selected world mythologies, both Occidental and Oriental, are studied comparatively against a background of theories concerning their origins, development, symbols, and motifs, as well as their significance to literary and interdisciplinary studies. Emphasis on the archetypal and related theories. The first of a two-part course, but may be taken as complete in itself.

K 1503 576 MYTH: THEORY AND PRACTICE 3 sh

The theoretical and mythic backgrounds from 1503 575 are applied to a study of archetypal and related criticism and to literary analysis. The creative process and the origins of literary form, theme, character, genre, imagery, and tone are intensively explored.

Prerequisite: 1503 575.

K 1503 577 FILM STUDIES 3 sh

On a rotating basis, different cultural and historical aspects of American, British, or world film will be examined. See current announcement. Students may repeat Film Studies so long as the topic is different each time.

K 1503 599 INDEPENDENT STUDY IN COMPARATIVE LITERATURE 3 sh

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate advisor and of the project supervisor is required before registration.

K 1503 602 SEMINAR IN COMPARATIVE LITERATURE 3 sh

Advanced study of an author, genre, movement, theme or critical theory. See current announcement for specific topic. Students may repeat the comparative seminar so long as the topic is different each time. Limit: 12 students.

Prerequisite: Instructor's permission.

K 1503 605 SEMINAR IN LITERARY RESEARCH, 3 sh
COMPARATIVE FOCUS

An introduction to the principal methods of scholarly and critical inquiry practiced in the discipline of comparative literature.

Prerequisites: Limited to students concentrating in Comparative Literature; instructor's permission.

ENGLISH EDUCATION

K 1501 580 RECENT RESEARCH AND EXPERIMENT 3 sh
IN THE TEACHING OF ENGLISH

A workshop that aims to apprise students of recent research, thought, and practice in the various areas of English teaching, with emphasis on the secondary school.

K 1501 581 STUDIES IN COMMUNICATION SKILLS 3 sh

Opportunity for teachers to study both traditional and newer theories and methods of teaching writing and research skills, and to develop and test instructional materials for use in their own classrooms.

SEMINARS AND THESIS

K 4903 603 SEMINAR IN COMPUTERS IN THE 3 sh
HUMANITIES

Types of literary research suitable for analysis by computer techniques, including linguistic chronology, linguistic geography, authenticity and attribution, stylistic analysis, and computer-assisted instruction. Elementary programming and a computer research project. Limit: 12 students.

Prerequisite: Instructor's permission.

K 1501 605 SEMINAR IN LITERARY RESEARCH 3 sh

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism, and the basics of editing. Recommended for the first or second semester of graduate study. Limit: 12 students.

Prerequisite: Instructor's permission.

K 1501 606 THESIS WRITING 3 sh

Working closely with a research advisor, the student conducts a scholarly investigation and completes an acceptable master's thesis.

Prerequisite: Permission of graduate advisor.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Program Director: Dr. David K. Robertson
Graduate Advisor: Dr. W. Augustus Rentsch

The Master of Arts degree in Environmental Studies offers concentrations in Environmental Education, Environmental Health, Environmental Management, and Environmental Science. Each of the concentrations is designed for professional careers. Environmental education serves the needs of teachers; environmental health serves the need of health professionals; environmental mangement serves government and business leaders, and environmental science serves industry. The program is administered by the Department of Environmental, Urban and Geographic Studies. The facilities of the New Jersey School of Conservation, operated by the College at Stokes State Forest, are available as an additional resource for the study of the natural environment.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation of the College will be followed in respect to this program. Students with weak undergraduate preparation for environmental studies will be required to complete prerequisite courses at the undergraduate level and/or appropriate graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENVIRONMENTAL STUDIES

(minimum 32-33 semester hours)

CONCENTRATION IN ENVIRONMENTAL EDUCATION

I.	Required Courses	21 sh
	0824 503 Methods of Research (must be taken within first 2 semesters)	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	0401 570 Ecology, OR	3
	0843 505 Society and Natural Environment	3
	4951 550 Environmental Education	3
	0843 500 Curriculum Development in Environmental Education	3
	(a field practicum)	3

II.	Required Research Option	6 sh
	Option A	
	4951 600 Thesis	6
	Option B	
	0829 534 Strategies for Curriculum Change	3
	4951 601 Research Project in Environmental Studies	3
III.	Required Electives	6 sh
	0401 430 Field Ornithology	3
	0401 431 Entomology	3
	0401 521 Field Studies of Flowering Plants	3
	0401 523 Mycology	3
	0821 540 Social Forces and Education	3
	0829 534 Strategies for Curriculum Change	3
	0837 532 Air Pollution	3
	0842 431 Individual and Group Dynamics	3
	0843 495 Workshop Utilizing Natural Environments	1
	0843 496 Field Studies in Social Studies and Natural Science	1
	0843 497 Field Studies in Social Studies and Outdoor Recreation	1
	0843 501 Outdoor Teaching Sites for Environmental Education	1
	0843 502 American Heritage Skills	3
	0843 503 Humanities and the Environment	3
	0843 504 Field Techniques for Teaching the Humanities	3
	0843 554 Practicum in Environmental Education	3
	2202 534 Anthropology and Education	3
	0990 497 Historical Restoration	1-9
	2204 501 Economic Analysis	3
	2206 509 Water Resource Management	3
	4951 531 Independent Study in Environmental Studies	1-4
	4951 551 Conservation Education	3
	2208 565 Sociology of Youth	3
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL HEALTH

I.	Required courses	18 sh
	0401 570 Ecology	3
	0837 502 Determinants of Environmental Health	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	0837 603 Research Project in Health	3
II.	Required electives	12 sh
	A minimum of 6 sh from elective areas A <i>and</i> B each	
	A. Health Services Area	
	0836 501 Selected Developments in Safety	3
	0837 500 Health Aspects of Family Living	3
	0837 516 Selected Developments in Community Health	3
	0837 528 Evaluation in Health	3
	0837 530 Seminar in Basic Issues in Health	3
	0837 531 Independent Study in Health	3
	0837 535 History and Foundations of Health I	3
	0837 536 History and Foundations of Health II	3
	B. Life Sciences Area	
	0837 531 Independent Study in Health	3
	0837 532 Air Pollution	3
	0401 515 Radiation Biology	4
	0401 531 Medical Parasitology	3
	0401 540 Comparative Human Anatomy	4
	0401 543 Comparative Immunology	3
	0401 553 Microbial Ecology	4
	1220 539 Environmental Noise	3
	2206 509 Water Resource Management	3
III.	Electives	3 sh
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL MANAGEMENT

I.	Required Courses	15 sh
	0401 570 Ecology	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	2206 521 Research Methods and Techniques	3
	4951 610 Seminar: Environmental Management	3
II.	Required Electives	12 sh
	A minimum of 6 sh from elective areas A <i>and</i> B each	
	A. Scientific Data and Concepts Area	
	0837 502 Determinants of Environmental Health	3
	1220 539 Environmental Noise	3
	1905 411 Water Analysis and Purification	3
	1914 525 Environmental Geoscience	3
	1914 558 Coastal Geomorphology	3
	2001 556 Environmental Psychology	3
	2202 411 Archeological Field Methods	3
	4951 531 Independent Study in Environmental Studies 1-4	

B.	Policy-making, Analysis and Management Area	
2001	553 Urban Psychology	3
2204	501 Economic Analysis	3
2204	508 Economics of Public Management	3
2204	510 Urban Economics	3
2206	501 Air Resource Management	3
2206	505 Human Environment	3
2206	509 Water Resource Management	3
2206	510 Urban Systems and Planning	3
2206	511 Urban and Regional Planning	3
2206	550 Urban Studies and Policy Analysis	3
2206	551 The Metropolitan Economy	3
2207	501 Public Administration and Public Policy	3
2208	564 Social Planning	3
4951	531 Independent Study in Environmental Studies	1-4
III.	Electives	6 sh
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL SCIENCE

I.	Required Courses	15 sh
0401	570 Ecology	3
0837	502 Determinants of Environmental Health	3
1914	525 Environmental Geoscience	3
1914	575 Geochemistry	3
1914	628 Seminar: Environmental Graphics	3
II.	Required Electives	12 sh
A minimum of 6 sh from electives areas A and B each		
A.	Bio-ecology Area	
0401	430 Field Ornithology	3
0401	467 Marine Biology of the Fishes	4
0401	521 Field Studies of Flowering Plants	4
0401	522 Plant Pathology	3
0401	531 Medical Parasitology	3
0401	532 Insect Ecology and Behavior	3
0401	543 Comparative Immunology	3
0401	550 Topics in Microbiology	4
0401	553 Microbial Ecology	4
0401	571 Physiological Plant Ecology	4
0401	572 Ecology of the Estuary	4
0401	573 Benthic Ecology	4
0499	505 Bacteriological Techniques in Marine Sampling	2
1999	565 Tidal Marsh Ecology	4
B.	Physical Environment Area	
0837	532 Air Pollution	3
1220	539 Environmental Noise	3
1905	411 Water Analysis and Purification	3
1905	570 Advanced Biochemistry	3
1914	530 Paleoecology	3
1914	537 Biostratigraphy of New Jersey	3

1914 558	Coastal Geomorphology	4
1914 560	Advanced Marine Geology	3
1914 571	Geophysics	3
1914 573	Nuclear Geophysics	3
2206 509	Water Resources	3

III. Comprehensive Examination

- Note: 1. Electives for all these concentrations may be added by the college. The advisor should be contacted before any are selected by the student.
2. It is the student's responsibility to file for the comprehensive examination with the departmental advisor. At that time, information will be given concerning the nature and scope of the examination.

ENVIRONMENTAL STUDIES

Course Descriptions

4 0843 500 CURRICULUM DEVELOPMENT IN ENVIRONMENTAL EDUCATION 3 sh

The historical, philosophical and conceptual aspects of developing a K-12 environmental educational curriculum. The focus is on the four major curriculum areas humanities, social studies, science and outdoor pursuits with proposed activities for the classroom, school grounds, community and natural areas intended to enhance the students' awareness of environmental problems and their possible solution.

4 0843 501 OUTDOOR TEACHING SITES FOR ENVIRONMENTAL EDUCATION 3 sh

This field-oriented course will include a working definition of outdoor environmental teaching sites as they relate to current developments in environmental education. Also incorporated through lecture, discussion, and field activities will be pertinent information on the philosophy, design, construction, and use of outdoor environmental teaching sites, with special emphasis on sites which can be developed on land areas adjacent to schools.

4 0843 502 AMERICAN HERITAGE SKILLS 3 sh

This course will focus on the home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas. The colonial living skills will be integrated into a general overview of the two hundred year time period under consideration, rather than as isolated elements.

4 0843 503 HUMANITIES AND THE ENVIRONMENT 3 sh

The course is designed to discuss three possible attitudes which man might hold toward nature. The first attitude is designated man in nature

and will explore attitudes characteristic of primitive religions. The second attitude is called Man Against Nature and takes account of the new attitudes introduced by the new science with its attendant desacralization of nature. The third position is called Man and Nature and is an exploration of ways man and nature may coexist.

4 0843 504 FIELD TECHNIQUES FOR TEACHING THE HUMANITIES 3 sh

The focus of this course is the development and improvement of techniques for teaching the humanities via the natural environment. The course will include consideration of the process of communication, the development of perception and observational skills, creative writing, literature interpretation, music, philosophy, dramatics, art, as well as historical investigations and considerations of past ways of life through the study of colonial crafts.

Prerequisites: Students should be classroom teachers or teachers-in-training.

4 0843 505 SOCIETY AND THE NATURAL ENVIRONMENT 3 sh

An overview of the principles of ecological interaction of biological systems as they relate to the biosphere. An attempt to show cause and effect relationships between these ecological principles and the action of human societies which have led to the present environmental crises.

4 0843 554 PRACTICUM IN ENVIRONMENTAL EDUCATION 3 sh

Implementation of environmental education programs in both public and private institutions. Other emphasis depends upon student's needs.

Prerequisites: 4951 550, 555 or permission of instructor.

4 2206 501 AIR RESOURCE MANAGEMENT 3 sh

The natural state of the atmosphere in terms of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution) are treated in respect to climate change, health and the energy balance. Prevention and solutions to air quality problems are covered from technical management and policy considerations.

4 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY 3 sh

Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.

4 2206 503 CULTURE REGIONS 3 sh

Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space as well as the diffusion process.

4 2206 504 PRO-SEMINAR 3 sh

Research on selected problems which will vary according to instructor.

4 2206 505 HUMAN ENVIRONMENT 3 sh

Discussion of population in relation to the physical environment, objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.

4 2206 509 WATER RESOURCE MANAGEMENT 3 sh

The spatial patterns of the water resource both as surface water and ground-water. Processes affecting availability and techniques of estimation are stressed.

4 2206 510 URBAN SYSTEMS ANALYSIS 3 sh

The complexity of the city and its modification by means of planning, the systems approach to urban study, the ecological base, different models of urban systems, the impact of technological change, the hierarchy of urban regions, planning in the existing systems and creating new ones.

4 2206 511 URBAN AND REGIONAL PLANNING 3 sh

Urban and regional planning analyzes planning goals at an integral level. Urban and regional planning are rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

4 2206 520 LANDSCAPES IN TRANSITION 3 sh

The field in historical perspective, with emphasis upon contemporary trends, philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

4 2206 521 RESEARCH METHODS 3 sh

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical mapping techniques. The design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in problem solving is studied.

4 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3 sh

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective the interaction of different social, cultural economic, political and planning forces examined for their impact upon the resulting system.

4 2206 551 THE METROPOLITAN ECONOMY 3 sh

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inner city relationships. Urban design planning juxtaposed with multifaceted decision making processes for an examination of their relative position in the management of urban systems.

4 2206 603 READING SEMINAR IN GEOGRAPHY AND URBAN STUDIES **2 sh**

Required of all master's degree candidates concentrating in geography and urban studies. This semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

4 2206 610 URBAN STUDIES SEMINAR **3 sh**

The seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

4 4951 501 ENVIRONMENTAL STUDIES—PHYSICAL **3 sh**

A systems concept utilizing physical science. Provides some understanding of the abiotic environment to life. The atmosphere, hydrosphere, and lithosphere are examined as natural, man-modified, and human environments.

4 4951 502 ENVIRONMENTAL STUDIES—SOCIAL/ BEHAVIORAL **3 sh**

A systems concept utilizing social and behavioral sciences. Provides some understanding of the relationships of the cultural environment to life. The social and behavioral conditions upon the grouping of individuals are examined in natural and man-modified environments.

4 4951 503 METHODS IN ENVIRONMENTAL RESEARCH **3 sh**

An overview of the methodology of research in environmental science and an understanding of the problems of conducting such research formulation of a research problem, use of reference materials, statistics measurement, instruments of research, and writing the research report.

4 4951 508 ENVIRONMENTAL PROBLEM SOLVING **3 sh**

Field training to define environmental problems, synthesize data, and evaluate alternative solutions.

Prerequisite: Six semester hours of environmental studies or permission of instructor.

4 4951 509 ENVIRONMENTAL CHANGE AND COMMUNICATION **3 sh**

Prepare students as professional environmentalists: communication and journalism strategies, theory of persuasion, and roles as catalyst, solution giver, process helpers, and resource person.

4 4951 531 INDEPENDENT STUDY IN ENVIRONMENTAL STUDIES **1-4 sh**

Student must develop statement of goals and phasing for completion, prior to consultation with instructor.

4 4951 550 ENVIRONMENTAL EDUCATION 3 sh
Foundations of environmental education historical, theoretical, and conceptual. Includes models, gaming, encounters, and teaching strategies. A prerequisite course for all environmental education 500 level courses.

4 4951 551 CONSERVATION EDUCATION 3 sh
Provide background in natural resource management; wildlife, fisheries, forests, water and related components of spaceship earth. Includes field trips.

4 4951 610 SEMINAR IN ENVIRONMENTAL MANAGEMENT 3 sh
This is a methods seminar focusing on the techniques of managing a project with environmental significance. Students will design and plan in detail a project to improve an existing environmental problem or to implement an economically important project that would minimize environmental problems.
Prerequisites: 4951 501 and 502, or written permission of the instructor.

4 4951 695 RESEARCH PROJECT IN ENVIRONMENTAL STUDIES 3 sh
Student completes the research proposal initiated in the research methods course.
Prerequisite: 0824 503 or 4951 503 or 2206 521, Instructor's permission.

4 4951 697 THESIS 6 sh
Preparation and defense of a thesis in environmental studies.
Prerequisite: Approval of the Department Chairman, Graduate Advisor and Thesis Advisor.



FINE ARTS

Chairperson: Professor William McCreath

Graduate Advisor: Dr. Peter Barnett

The graduate program in fine arts allows for concentration in the area of the student's choice. Concentrations are currently offered in painting, graphics, photography, sculpture, cinematography, drawing, ceramics, textiles, jewelry, the visual arts and art education. In addition courses are offered in art history and art therapy.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program.

Eligibility for matriculation requires either an undergraduate degree in fine arts or the equivalent as determined by the art department. A strong background in both art history and studio work is expected. A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning all requirements may be obtained from the department's graduate advisor.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FINE ARTS

I. Required courses for all Fine Arts MA candidates.

Graduate Art History6 sh

Graduate Project or Thesis6 sh

EITHER

A. Graduate Project

1001 695 Seminar in Art I3 sh

1001 696 Seminar in Art II3 sh

OR

B. Master's Thesis

1001 697 Master's Thesis I3 sh

1001 698 Master's Thesis II3 sh

II. Art Electives15 sh

To be selected with approval of the Graduate Advisor.

III. Free Electives6 sh

IV. Final Oral Examination in relation to Graduate Project or Master's Thesis.

In addition to the successful completion of all required course work all candidates are required to make a final presentation of either a body of visual work from their area of concentration, a Master's Thesis or a combination of visual and written work. Advice concerning this requirement may be obtained from the department's graduate advisor.

Minimum33 sh

FINE ARTS

Course Descriptions

G 0831 501 CONTEMPORARY VIEWPOINT IN ART EDUCATION 3 sh

The literature of the foundations of art education; readings selected from philosophy, the social and behavioral sciences, and the history of art education. Study the implications of the developments in science and technology.

Prerequisite: Permission of department.

G 0831 502 ADVANCED CURRICULUM CONSTRUCTION IN ART EDUCATION 3 sh

For students with interest in curriculum construction or revision, both in the elementary and secondary programs. Evaluation of curricular materials in use in New Jersey and throughout the country in terms of principles of curriculum construction.

Prerequisite: permission of department.

G 0831 505 SUPERVISION AND EVALUATION IN ART EDUCATION 3 sh

Supervisory methods and techniques for the experienced art teacher. Current and analogous supervisory data will be included. Will be based on state criteria and ways of evaluating from creative viewpoints.

Prerequisite: 3 years of teaching art.

G 0831 506 STUDIO TECHNIQUES ART THERAPY 3 sh

The development of a repertoire of art therapy skills in various media to facilitate meeting the expressive needs in art therapy settings.

Prerequisite: Acceptance into art therapy concentration.

G 1001 515 GRADUATE LIFE DRAWING I 3 sh

Advanced problems in drawing based upon a study of the human figure.

Prerequisite: Permission of the department.

G 1001 516 GRADUATE LIFE DRAWING II 3 sh

Advanced problems in drawing based upon a study of the human figure.

Prerequisite: Permission of the department. G 1001 515.

G 1001 601 GRADUATE LIFE DRAWING III 3 sh

Advanced problems in drawing based upon a study of the human figure.

Prerequisite: Permission of Department. G 1001 516.

G 1001 602 GRADUATE LIFE DRAWING IV 3 sh

Advanced problems in drawing based upon a study of the human figure.

Prerequisite: Permission of Department. G 1001 601.

G 1001 610 INDEPENDENT STUDY I 1-8 sh

Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct

and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his/her prior work in the chosen media. Credits to be arranged. May be repeated for credit.

Prerequisite: Permission of the Department.

G 1001 611 INDEPENDENT STUDY II **1-8 sh**

Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his/her prior work in the chosen medium. Credits to be arranged. May be repeated for credit.

Prerequisite: Permission of the department.

G 1001 620 FIELD COURSE IN ART I **2-6 sh**

Travel courses to art sources in the United States and foreign countries not to exceed 6 graduate credits. First-hand contact with the historic art forms of the places visited and with artists and craftsmen. Each student selects an area of study in which the places visited have rich art resources. As preparation for the course, the student outlines a chosen study problem, reads background material, and lists sources he/she expects to utilize.

Prerequisite: Permission of the department. Taken serially.

G 1001 621 FIELD COURSE IN ART II **2-6 sh**

Travel courses to art sources in the United States and foreign countries not to exceed 6 graduate credits. First-hand contact with the historic art forms of the places visited and with artists and craftsmen. Each student selects an area of study in which the places visited have rich art resources. As preparation for the course, the student outlines his chosen study problem, reads background material, and lists sources he expects to utilize.

Prerequisite: Permission of the department. Taken serially.

G 1001 695 SEMINAR IN ART I **3 sh**
(WITH GRADUATE PROJECT)

An opportunity to make an extensive study in the field of art. The student examines and defines a problem and explores it in increasing depth and significance. The project may be a written document or a studio project. Students are advised to initiate these projects after completing at least two courses on a graduate level in the area of the project, and no more than 12 to 16 credits in their general program. Approval for 695 should be secured in the spring and summer session preceding fall registration for the course. Approval is gained from 1) the instructor as to competence in the medium, or background preparation. 2) a faculty member who will serve as personal advisor throughout the project. 3) the departmental graduate advisor who will conduct the 695, 696 seminar.

G 1001 696 SEMINAR IN ART II **3 sh**
(WITH GRADUATE PROJECT)

An opportunity to make an extensive study in the field of art. The student

examines and defines a problem and explores it in increasing depth and significance. The project may be a written document or a studio project. Students are advised to initiate these project after completing at least two courses on a graduate level in the area of the project, and no more than 12 to 16 credits in their general program. Approval for 696 should be secured in the spring and summer session preceding fall registration for the course. Approval is gained from 1) the instructor as to competence in the medium, or background preparation. 2) a faculty member who will serve as personal advisor throughout the project. 3) The departmental graduate advisor who will conduct the 695, 696 seminar.

G 1001 697 MASTER'S THESIS I **3 sh**

Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.

Prerequisite: Written permission of the Graduate Advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors throughout the thesis.

G 1001 698 MASTER'S THESIS II **3 sh**

Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.

Prerequisite: Written permission of the Graduate Advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors throughout the thesis.

G 1002 511 GRADUATE PAINTING I **3 sh**

Studio in painting to further the creative expression and technical knowledge of the student in various painting media. Personal and professional development through studio work, trips and the study of the contemporary artists.

Prerequisite: Permission of the department.

G 1002 512 GRADUATE PAINTING II **3 sh**

Studio in painting to further the creative expression and technical knowledge of the student in various painting media. Personal and professional development through studio work, trips and the study of the contemporary artists.

Prerequisites: Permission of the department. G 1002 511.

G 1002 521 GRADUATE SCULPTURE I **3 sh**

The student explores independently one or two materials and techniques, and begins to find directions as a sculptor.

Prerequisite: Permission of the Department.

G 1002 522 GRADUATE SCULPTURE II **3 sh**

The student explores independently one or two materials and techniques, and begins to find directions as a sculptor.

Prerequisites: Permission of the department. G 1002 521.

- G 1002 558 GRADUATE LETTERING I** **3 sh**
 Styles and techniques of lettering applied in such forms as manuscripts, signs, posters, display and advertising layout, brief introduction to typography.
 Prerequisites: Permission of the department.
- 1002 559 GRADUATE LETTERING II** **3 sh**
 Styles and techniques of lettering applied in such forms as manuscripts, signs, posters, display and advertising layout. Brief introduction to typography.
 Prerequisites: G 1002 558. Permission of the Department.
- G 1002 560 GRAPHIC DESIGN I** **3 sh**
 Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer.
 Prerequisites: Permission of the Department.
- G 1002 561 GRAPHIC DESIGN II** **3 sh**
 Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer.
 Prerequisites: 1002 560. Permission of the department.
- G 1002 605 GRADUATE PAINTING III** **3sh**
 Continuation of Graduate Painting II.
 Prerequisite: G 1002 512. Permission of the Department.
- G 1002 606 GRADUATE PAINTING IV** **3sh**
 Continuation of Graduate Painting III.
 Prerequisite: G 1002 605. Permission of the Department.
- G 1002 607 GRADUATE PAINTING V** **3 sh**
 Advanced study in painting. Individual projects in various media. Readings in contemporary art, visits to museums and galleries.
 Prerequisites: G 1002 607. Permission of the Department.
- G 1002 608 GRADUATE PAINTING VI** **3 sh**
 Continuation of Graduate Painting V.
 Prerequisite: G 1002 607. Permission of the Department.
- G 1002 613 GRADUATE SCULPTURE III** **3 sh**
 The student explores independently one or two materials and techniques, and begins to find directions as a sculptor. Graduate prerequisites and permission of department. G 1002 522.
- G 1002 614 GRADUATE SCULPTURE IV** **3 sh**
 The student explores independently one or two materials and techniques, and begins to find directions as a sculptor. Graduate prerequisites and permission of department. G 1002 613.

- G 1003 590 MODERN PHILOSOPHIES OF ART I** 3 sh
Major writers in art in the nineteenth and twentieth centuries. The nature of the creative experience. Art in the life of the individual and of society. The creative process. New Materials. Institutions and sentiments affecting current thinking in the field. Discussions based on readings of philosophers, poets, social scientists and psychologists.
Prerequisites: Fine Arts Majors only or Permission of the instructor.
- G 1003 591 MODERN PHILOSOPHIES OF ART II** 3 sh
The writings of 19th and 20th century artists and their interpreters such works as the Futurist's Manifesto and Kandinsky's The Spiritual in Art.
Prerequisites: Fine Arts Majors Only or Permission of the instructor.
- G 1003 592 SELECTED PROBLEMS ART HISTORY I** 3 sh
Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the speciality of the professor or guest professor invited for the semester.
Prerequisites: Permission of the department.
- G 1003 593 SELECTED PROBLEMS ART HISTORY II** 3 sh
Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the specialities of the professor or guest professor invited for the semester.
Prerequisites: Permission of the department.
- G 1003 594 NORTHERN RENAISSANCE ART** 3 sh
15th and 16th century paintings in northern Europe especially Flanders and Holland. The development of realism and style in relation to social change and the general ideas of the period, including contemporary music. Jan Van Eyck, Van Der Weyden, Bosch, Peter Breughel and Matthias Grunewald.
Prerequisites: Permission of the department.
- G 1010 505 FILM AS A VISUAL ART** 3 sh
An understanding of the development of the motion picture as an art form. Viewing, analysis, reading, and/or actual participation in the production of film images.
Prerequisites: Graduate standing. Permission of the department.
- G 1010 580 GRADUATE CINEMATOGRAPHY I** 3 sh
Techniques, materials and theories of motion picture production for visually experienced students.
Prerequisite: Major or minor in fine arts or related area, or permission of instructor.
- G 1010 581 GRADUATE CINEMATOGRAPHY II** 3 sh
Techniques, materials and theories of motion picture production for visually experienced students.
Prerequisite: Permission of instructor. G 1010 580.

G 1010 615 GRADUATE CINEMATOGRAPHY III 3 sh

Techniques, materials and theories of motion picture production for visually experienced students.

Prerequisite: Permission of instructor. G 1010 581.

G 1010 616 GRADUATE CINEMATOGRAPHY IV 3 sh

Techniques, materials and theories of motion picture production for visually experienced students.

Prerequisite: Permission of instructor. G 1010 615.

**G 1011 570 GRADUATE INTRODUCTORY PHOTOGRAPHY: 3 sh
A CONTEMPORARY ART FORM**

Provides for the in-depth study and practice of photography as a visual language. Encourages exploration beyond the camera through studio work, discussions, criticism, films, trips and demonstrations.

Prerequisite: 10 sh in art. Permission of the department.

**G 1011 571 GRADUATE INTERMEDIATE PHOTOGRAPHY: 3 sh
A CONTEMPORARY ART FORM**

Workshop, discussion, lectures, criticism, demonstrations. Photography for self expression and greater visual awareness. Creative controls craftsmanship, perception, presentation and the fine points will be investigated.

Prerequisite: 1011 570.

**G 1011 609 GRADUATE ADVANCED PHOTOGRAPHY: 4 sh
A CONTEMPORARY ART FORM**

Workshop, discussion, lecture, demonstrations, criticism. Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, zinc system and view camera will be investigated.

Prerequisite: 1011 571.

**G 1011 617 GRADUATE SPECIAL PROCESSES IN 4 sh
PHOTOGRAPHY**

Investigation of non-traditional light sensitive materials for use in the photographic image making process. It extends traditional boundaries of photography through new tools that permit greater image manipulation. Gum bichromate, cyano-type, platinum, photo etching, and others will be investigated.

Prerequisite: 1011 609.

G 1090 525 GRADUATE METALWORK & JEWELRY I 3 sh

Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting.

Prerequisites: Permission of the department.

G 1090 526 GRADUATE METALWORK & JEWELRY II 3 sh

Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting.

Prerequisites: Permission of the department. G 1090 525.

G 1090 531 GRADUATE CERAMICS POTTERY AND SCULPTURE I **3 sh**

Experimentation with the Potter's wheel and handbuilding methods of forming. Experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in Ceramics, portfolio, and instructor's approval.

G 1090 532 GRADUATE CERAMICS POTTERY AND SCULPTURE II **3 sh**

Experimentation with the potter's wheel and handbuilding methods of forming. Experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in Ceramics, portfolio, and instructor's approval. G 1090 531.

G 1090 540 GRADUATE PROBLEMS IN TEXTILE RESEARCH **3 sh**

The effect of centuries of textile traditions on the modern fiber artist.

Prerequisite: Permission of the Department.

G 1090 541 FORM IN FIBER I **3 sh**

Designing with simple and four harness floor looms, in a variety of techniques and materials.

Prerequisite: 10 sh in art. Permission of the department.

G 1090 542 FORM IN FIBER II **3 sh**

Designing with simple and four harness floor looms, in a variety of techniques and materials.

Prerequisite: Permission of the department. G 1090 541.

G 1090 543 GRADUATE DECORATION OF FABRICS I **3 sh**

Survey course in all aspects of fabric embellishment tie-dye, batik, blockprint, tritik discharge, silkscreen printing, 3M Matrix, etc.

Prerequisite: Permission of the department. Taken serially.

G 1090 544 GRADUATE DECORATION OF FABRICS II **3 sh**

Survey course in all aspects of fabric embellishment, tie-dye, batik, blockprint, tritik, discharge, silkscreen printing, 3M matrix, etc.

Prerequisite: Permission of the department. G 1090 543.

G 1090 618 GRADUATE METALWORK AND JEWELRY III **3 sh**

Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting.

Prerequisites: Permission of the department. G 1090 526.

G 1090 619 GRADUATE METALWORK AND JEWELRY IV **3 sh**

Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting.

Prerequisites: Permission of the department. G 1090 618.

- G 1090 622 GRADUATE CERAMICS POTTERY AND SCULPTURE III** 3 sh
Experimentation with the potter's wheel and handbuilding methods of forming, experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.
Prerequisites: Undergraduate experience in ceramics, portfolio, and instructor's approval. Taken serially. G 1090 532.
- G 1090 623 GRADUATE CERAMICS POTTERY AND SCULPTURE IV** 3 sh
Experimentation with the potter's wheel and handbuilding methods of forming. Experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.
Prerequisites: Undergraduate experience in ceramics, portfolio, and instructor's approval. G 1090 622.
- G 1090 624 FORM AND FIBER III** 3 sh
Continuation of studies begun in form in Fiber I and II.
Prerequisites: Permission of the department. G 1090 542.
- G 1090 625 FORM AND FIBER IV** 3 sh
Continuation of studies begun in Form in Fiber I, II and III.
Prerequisites: Permission of the department. G 1090 624.
- G 1090 626 FORM AND FIBER V** 3 sh
Continuation of studies begun in Form in Fiber I, II, III and IV.
Prerequisites: Permission of the department. G 1090 625.
- G 1090 627 FORM AND FIBER VI** 3 sh
Continuation of studies begun in Form in Fiber I, II, III, IV, and V.
Prerequisites: Permission of the department. G 1090 626.
- G 1090 630 GRADUATE DECORATION OF FABRIC III** 3 sh
Continuation of comprehensive studies begun in graduate decoration of Fabric I and II.
Prerequisite: Permission of the department. G 1090 544.
- G 1090 631 GRADUATE DECORATION OF FABRIC IV** 3 sh
Continuation of comprehensive studies in all aspects of fabric embellishment which were begun in graduate decoration of fabric I, II, III.
Prerequisite: Permission of the department. G 1090 630.
- G 4921 552 GRADUATE PRINTMAKING I** 3 sh
Advanced work in various print processes. Emphasis on the development of images and concepts as they relate to the printmaking media.
Prerequisite: Permission of the department.
- G 4921 553 GRADUATE PRINTMAKING II** 3 sh
Continuation of Graduate Printmaking I
Prerequisite: Permission of the department. G 4921 552.

G 4921 628 GRADUATE PRINTMAKING III	3 sh
Continuation of graduate printmaking II.	
Prerequisite: Permission of the department; 4921 553.	
G 4921 629 GRADUATE PRINTMAKING IV	3 sh
Continuation of graduate printmaking III.	
Prerequisite: Permission of the department; 4921 628.	

FRENCH

Chairperson: Dr. Helene Klibbe
Graduate Advisor: Professor Madeleine Sergent

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools, and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

ADMISSION REQUIREMENTS

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard College requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester before registration.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FRENCH

- I. Required Courses6 semester hours
 - 1102 505 History of the French Language3
 - or
 - 1102 509 Advanced Stylistics3
 - 1102 603 Research Seminar3
 - (Waived if student elects to write a thesis)
- One course in the literature of *each* century to be selected from the following French electives:

II. French Electives

1102 506	Advanced French Phonetics	3
1102 508	Explication de Texte and Stylistic Analysis	3
1102 511	Medieval French Literature	3
1102 513	Medieval French Theater	3
1102 516	French Humanism in the Sixteenth Century	3
1102 517	Poetry of the Renaissance	3
1102 525	Moralists of the Seventeenth Century	3
1102 526	Corneille, Racine and Moliere	3
1102 527	Selected Topics in Seventeenth Century French Literature	3
1102 530	Philosophy and Politics in Eighteenth Century France	3
1102 531	The Development of the Novel in Eighteenth Century France	3
1102 532	Eighteenth Century Seminar	3
1102 537	Nineteenth Century French Theater	3
1102 538	French Novel of the Nineteenth Century I	3
1102 539	French Novel of the Nineteenth Century II	3
1102 540	Nineteenth Century French Poetry	3
1102 542	Twentieth Century French Theater	3
1102 543	Twentieth Century French Poets	3
1102 544	Twentieth Century French Novel I	3
1102 545	Twentieth Century French Novel II	3
1102 546	Current Directions in the French Novel	3
1102 548	Contemporary French Civilization: Selected topics	3

These courses will be offered on a rotating schedule to enable students to fulfill the requirements for a Master's degree within two years, summer sessions included.

III. Free Electives6 semester hours

IV. Thesis (Optional)4 sh, on approval

V. Comprehensive Examination: Two sessions

- a) A 2-hour written exam covering stylistics, explication de texte and French civilization.
- b) A 3-hour written examination on topics selected from a previously announced list of subjects covering the literature of four centuries. The exam is based on a reading list and course content.

Minimum: 33 semester hours

FRENCH

Course Descriptions

- L 1102 505 HISTORY OF THE FRENCH LANGUAGE 3 sh**
Structures of modern French as outcome of linguistic and cultural processes over 2,000 years.
- L 1102 506 ADVANCED FRENCH PHONETICS 3 sh**
Principles of general and experimental phonetics. Previous knowledge of phonetics desirable.
- L 1102 508 EXPLICATION DE TEXTE AND STYLISTIC ANALYSIS 3 sh**
Instruction in the techniques of "Explication de Texte and Stylistic Analysis" as both an instrument for the development of critical reading ability and as a pedagogical tool for the teaching of literature as well as of language through literature.
- L 1102 509 ADVANCED STYLISTICS 3 sh**
Fundamental notions of structuralism as applied to contemporary literary criticism.
- L 1102 511 MEDIEVAL FRENCH LITERATURE 3 sh**
French literature from ninth through fifteenth centuries emphasizing the "Chanson de Geste" and the "Roman Courtois."
- L 1102 513 MEDIEVAL THEATER 3 sh**
Origins and development of theater in France during the middle ages.
- L 1102 516 FRENCH HUMANISM IN 16TH CENTURY 3 sh**
Humanistic ideals as reflected in the works of Rabelais, Montaigne, and other authors.
- L 1102 517 POETRY OF THE RENAISSANCE 3 sh**
Major works of Marot, Ronsard, Du Bellay and other poets of the Pleiade.
- L 1102 525 MORALISTS OF THE SEVENTEENTH CENTURY 3 sh**
Representative works of Descartes, Pascal, La Rochefoucauld, Saint Simon, La Bruyere, and other authors.

- L 1102 526 CORNEILLE, RACINE AND MOLIERE** 3 sh
Dramatic art as reflected in representative plays of the three authors.
- L 1102 527 SELECTED TOPICS IN SEVENTEENTH CENTURY FRENCH LITERATURE** 3 sh
Changing topics to include in-depth studies of individual authors.
- L 1102 530 PHILOSOPHY AND POLITICS IN 18TH CENTURY FRANCE** 3 sh
The impact of the "Philosophes" on the revolution in religion and political and sociological thought.
- L 1102 531 THE DEVELOPMENT OF THE NOVEL IN EIGHTEENTH CENTURY FRANCE** 3 sh
Study of the social and historical context of a novel and its particular form (e.g. Epistolary, Episodic, etc.).
- L 1102 532 EIGHTEENTH CENTURY SEMINAR** 3 sh
Changing topics to include in-depth studies of individual authors and genre topics.
- L 1102 537 NINETEENTH CENTURY FRENCH THEATER** 3 sh
Hugo's dramatic theories and their application in representative plays.
- L 1102 538 FRENCH NOVEL OF 19TH CENTURY I** 3 sh
Insight into major works of Balzac and Stendhal.
- L 1102 539 FRENCH NOVEL OF 19TH CENTURY II** 3 sh
Insight into Major works of Flaubert and Zola
- L 1102 540 NINETEENTH CENTURY FRENCH POETRY** 3 sh
Development of French poetry from romanticism to symbolism.
- L 1102 542 TWENTIETH CENTURY THEATER** 3 sh
Major modern currents and trends in drama.
- L 1102 543 TWENTIETH CENTURY POETS** 3 sh
Within a general developmental context, emphasis upon thematics and structural analysis of work of Appollinaire, Reverdy, Char, Eluard and Bonnefoy.
- L 1102 544 TWENTIETH CENTURY NOVEL I** 3 sh
Evolution of the French novel: Proust, Gide, Mauriac and other authors.
- L 1102 545 TWENTIETH CENTURY NOVEL II** 3 sh
Evolution of the French novel: Malraux, Sartre, Camus, and other authors.
- L 1102 546 CURRENT DIRECTIONS IN FRENCH NOVEL** 3 sh
Analysis of current developments in the French novel and its criticism.

L 1102 548 CONTEMPORARY FRENCH CIVILIZATION: 3 sh
SELECTED TOPICS

The course acquaints students with the institutions and culture of contemporary France.

L 1102 603 RESEARCH SEMINAR 3 sh

Opportunity to apply research techniques on a specific topic of the student's choice.

L 1503 536 THE ROMANTIC MOVEMENT 3 sh

Comparative approach to the study of romanticism in England, Germany, and France. (Taught in English. Recommended to French majors as a free elective.)

The following courses are offered as remedial work for students requiring supplementary language preparation. These courses carry no graduate credit. Course descriptions may be found in the current undergraduate bulletin.

L 1102 250 Advanced Composition

L 1102 472 French Language Workshop



GEOSCIENCE

Chairperson: Professor Richard Hodson

Graduate Advisor: Dr. Charles L. Hamilton

The graduate programs in geoscience are designed to enable the student to pursue further study in the various areas of the department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training for teachers in the field.

For the arts and science student, a graduate program is designed to give opportunity for in-depth study in the broad field of geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in (1) metamorphic and igneous geology, (2) stratigraphy, paleobiology and sedimentology, or (3) oceanography and marine geology is possible. Some of the above courses will be taken at the various sites of the New Jersey Marine Science Consortium.

ADMISSION REQUIREMENTS

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specialization, as well as a sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin (Admission to Graduate Study). Each candidate's background and credentials must be approved by the graduate advisor for the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN GEOSCIENCE

Thirty-two semester hours are required, of which up to eight may be at the 400 level. Additional 400 level courses will not be given credit without written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for graduate courses in the area of professional education.

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|----|---|---------|
| I. | Required Courses (one from each group) | 9-12 sh |
| A. | 1914 537 Biostratigraphy of New Jersey | 4 |
| | 1914 533 Advanced Invertebrate Paleontology | 4 |
| | 1914 512 Paleoecology | 3 |
| B. | 1914 503 Advanced Physical Geology | 4 |
| | 1914 504 Advanced Historical Geology | 3 |
| | 1914 571 Geophysics | 3 |

C.	1914 543	Advanced Mineralogy	3
	1914 546	Petrography	4
	1914 545	Optical Mineralogy	4
II.	Geoscience Electives		11-13 sh
III.	Research		
	1914 695	Thesis	4
IV.	Free Electives		6
V.	Comprehensive Examination		

Minimum: 32 semester hours

GEOSCIENCE

Course Descriptions

T 1914 503 ADVANCED PHYSICAL GEOLOGY 4 sh

In-depth study of the major problems of physical geology processes of erosion, rock formation, continent and ocean-basin origin and relationships, earthquakes, interior of the earth, vulcanism, island arcs, mountain building, paleomagnetism, continental drift, and sea-floor spreading. Field trips. (2 hours lecture, 4 hours laboratory.)

Prerequisites: Physical geology and 8 additional hours of geoscience at 400 level.

T 1914 504 ADVANCED HISTORICAL GEOLOGY 3 sh

In-depth analysis of major problems in geologic history, stratigraphy and paleoenvironments as interpreted through lithologic and paleontologic evidence. Required field trips. (2 hours lecture, 2 hours laboratory)

Prerequisites: 1914 434

T 1914 525 ENVIRONMENTAL GEOSCIENCE 3 sh

In-depth study of the relationships between man and the physical environment of atmosphere, hydrosphere and lithosphere. Particular attention to problems of mineral resource and fossil-fuel depletion, pollution of air, water, and soil and waste disposal and recycling. Simple computer modeling of environmental situations. (3 hours lecture)

Prerequisite: Graduate standing and either Environmental studies-physical or permission of the instructor.

T 1914 530 PALEOECOLOGY 3 sh

Principles, distribution and association of fossils as interpreted from the evidence presented in the geologic record. Detailed paleoecological field study made of selected faunal assemblages. (2 hours lecture, 2 hours laboratory)

Prerequisite: 1914 433

T 1914 533 ADVANCED INVERTEBRATE PALEOBIOLOGY 4 sh

Fossil invertebrates with emphasis on their evolutionary, paleoecologic and stratigraphic significance. Laboratory and field work stresses collecting, preparation, identification and curatorial and faunal analysis techniques. Required field trips. (3 hours lecture, 2 hours laboratory.)

Prerequisite: Invertebrate Paleobiology or undergraduate biology major sequence or the permission of the instructor.

T 1914 535 VERTEBRATE PALEOBIOLOGY 3 sh

The geologic history, morphology, taxonomy, paleogeography and evolution of fossil vertebrates. Required field trips. (2 hours lecture, 2 hours laboratory)

Prerequisite: 1914 114, 0401 131, and one course in vertebrate anatomy or permission of instructor.

T 1914 536 PALEOBOTANY 3 sh

The taxonomy, morphology, evolution, paleoecology and stratigraphic significance of fossil plants. Required field trips. (2 hours lecture, 2 hours laboratory.)

Prerequisites: Historical Geology and General Botany or permission of the instructor.

T 1914 537 BIOSTRATIGRAPHY OF NEW JERSEY 3 sh

The geologic history, paleontology, stratigraphy and paleogeography of New Jersey. Required field trips. (2 hours lecture, 2 hours laboratory)

Prerequisites: 1914 530 or instructor's permission.

T 1914 538 SEDIMENTARY PETROGRAPHY 4 sh

The interpretative study of the structures, textures, composition and genesis of sedimentary rocks, laboratory analyses of sediments and sedimentary rocks by optical, mechanical and chemical methods and the graphical representation of the resultant data. (3 hours lecture, 2 hours laboratory)

Prerequisite: 1914 434, 545

T 1914 543 ADVANCED MINERALOGY 3 sh

Chemical and physical principles as applied to minerals. Detailed study of representative minerals from the various families. Advanced techniques will be performed by the student. Field trips. (2 hours lecture, 2 hours laboratory)

Prerequisites: 1914 443 or instructor's permission.

T 1914 545 OPTICAL MINERALOGY 4 sh

Theory and practice of using the polarizing microscope to study and identify minerals. Theory of light transmission in minerals; the practical effect. Required field trips. (3 hours lecture, 2 hours laboratory)

Prerequisites: 1914 443

T 1914 546 PETROGRAPHY 4 sh

Rock textures, structures and mineralogy using the polarizing microscope. Identification and classification of rocks and the origin and history of the rock as determined by microscopic study of thin sections. Required field trips. (3 hours lecture, 2 hours laboratory)

Prerequisites: 1914 444, 545

T 1914 558 COASTAL GEMORPHOLOGY 4 sh

Coastlines and their evolution. Processes and materials of the coastal zone. Shore zone hydrodynamics and sedimentation. Beach and barrier

systems with special emphasis on the New Jersey shoreline. Also offered at the field stations of New Jersey Marine Sciences Consortium. (3 hours lecture, 2 hours laboratory.)

Prerequisites: 12 hours of geoscience including geomorphology or permission of the instructor.

T 1914 560 ADVANCED MARINE GEOLOGY 3 sh

Development and evolution of the ocean basins; marine sedimentation; shoreline development and classification; submarine topography; mineral resources of the sea. Laboratory analysis of marine sediments and fossil assemblages. Required field trips. (2 hours lecture, 2 hours laboratory.)

Prerequisite: Physical Geology and one 400 course in Marine Geology or Oceanography.

T 1914 571 GEOPHYSICS 3 sh

Theory and application of conventional geophysical methods; seismology, magnetism, electricity and gravity. Laboratory includes the collection and interpretation of geophysical data. Field trips. (3 hours lecture).

Prerequisites: Physical geology, 2 semesters each of college Physics and Calculus.

T 1914 572 TECTONICS 3 sh

The study of the major structures of the earth, the principle of isostasy, mountain-building, continental drift, sea-floor spreading, and possible causes of tectonism in the earth. The methods of study; results obtained, interpretation of the data, and the latest theories of tectonism. (3 hours lecture)

Prerequisites: 1914 112, 1902 103, 104

T 1914 573 NUCLEAR GEOPHYSICS 3 sh

Principles and application of nuclear physics to study of earth, including natural radiation, origin and occurrence of isotopes; use of isotopes in prospecting, geochronology and space geology; paleotemperature determinations; activation analysis; mining and use of radioactive elements; nuclear energy. (2 hours lecture, 2 hours laboratory)

Prerequisites: 1914 503 or 504, 1902 104.

T 1914 575 GEOCHEMISTRY 3 sh

Chemical laws and principles applied to the earth, chemical composition of the earth, distribution and relative abundance of the elements. Radioactive materials, atmospheric precipitation of geochemicals, the geochemistry of polluted water (including solid and liquid wastes) study of meteorites. Required field trips. (3 hours lecture)

Prerequisites: General Chemistry, Petrology.

T 1914 578 IGNEOUS AND METAMORPHIC GEOLOGY 4 sh

The interpretative study of igneous and metamorphic rocks in detail with the aim of properly identifying and naming the rocks and interpreting their history; rock suites from classical areas. Required field trips. (3 hours lecture. 2 hours laboratory).

Prerequisites: Optical mineralogy, petrology.

T 1914 580 FIELD GEOLOGY

4 sh

The principles and techniques of geologic field work. Independent and team mapping of local areas of geologic interest using modern field methods and instruments. (3 hours lecture, 2 hours laboratory).

Prerequisite: 12 hours of 400 level geology.

T 1914 695 THESIS

4 sh

In-depth field, laboratory and library investigation of a problem in the area of the student's interest in geoscience; results will be presented in oral and written form culminating in a written thesis.

Prerequisite: Matriculation for the M.A. degree in geoscience.

HEALTH PROFESSIONS

Chairperson and Graduate Advisor: Dr. Harry H. Hoitsma

The graduate program leads to a Master of Arts degree in Health Education. It provides advanced study for candidates engaged in or seeking added preparation for positions in the health education field. A broad variety of educational experiences are available in an effort to prepare health educators for their continually expanding involvement in schools, colleges, community agencies, business and industry. Essential aspects of the program include required as well as selected elective courses in the Department of Health Professions, inter-disciplinary coursework, a comprehensive written examination, a research experience culminating in an oral examination and the completion of a major document. Development of a historical perspective is provided along with an emphasis on specific contemporary health problems. The implications of advancements in the health sciences combine with a recognition of recent developments in health education to complete the foundational basis of this program.

ADMISSION REQUIREMENTS

All candidates must meet the admission requirements for graduate study at Montclair State College, including the completion of a major in health education from an accredited college or university which constitutes the basic requirement for admission. Candidates with degrees in closely related areas may be considered, although prematriculation course work may be required. Applicants with a minor or less preparation in health education must complete designated course work prior to matriculation. Students with a major in health education may also be required to undertake additional work where academic deficiencies are apparent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HEALTH EDUCATION

I.	Required Courses	15 semester hours
	0837 526 Curriculum Development in Health Education	3

0837 528	Evaluation in Health	3
0837 536	History and Foundations of Health I or	
0837 536	History and Foundations of Health II	3
0837 503	Research Methods in Health	3
0837 603	Research Project in Health	3

- II. Selected Health Education Electives9 semester hours
The selection of health education electives will be determined through advisement and will be based on the professional objectives of the candidate.

0837 530	Seminar on Basic Issues in Health	3
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(This course is recommended but not required prior to the comprehensive written examination.)

- III. Free Electives8 semester hours

IV. Comprehensive Examination

All candidates must satisfactorily complete the following courses before registering for the examination:

0837 528	Evaluation in Health	3
0837 503	Research Methods in Health	3

And

One of the following three courses:

0837 526	Curriculum Development in Health Education	3
0837 535	History and Foundations of Health I	3
0837 536	History and Foundations of Health II	3

The examination is composed of five items: one each in research, evaluation, history, curriculum and health issues. The candidate must satisfactorily answer three items; however, students who pass both the research item and the evaluation item will be eligible to register for course 0837 603, Research Project in Health. There are no exceptions to this requirement. Applications are available in the department office and must be submitted at least three weeks prior to the examinations scheduled in January and June.

V. Oral Examination

An oral examination administered by a committee of three graduate faculty members, including your research advisor, is required of all candidates and is conducted in conjunction with course 0837 603, Research Project in Health, and completion of the research document.

Note:

- No more than two of the following 400-level courses may be taken for credit to be applied to the Master's degree:
0837 411, The School Health Program, 3 sh
0837 445, Perspectives on Death, 3 sh
0837 460, Systems of Health Care Delivery, 3 sh
- The department provides opportunity for membership in Rho Chapter of Eta Sigma Gamma, a national health science honorary society.

HEALTH EDUCATION

Course Descriptions

W 0836 501 SELECTED DEVELOPMENTS IN SAFETY 3 sh

Selected aspects of safety, including major areas, home, industrial, public and transportation. Community's role in promoting a safe environment.

Prerequisite: A basic course in safety or the equivalent.

W 0837 500 HEALTH ASPECTS OF FAMILY LIVING 2 sh

The family in contemporary society and alternatives to the traditional family, including health aspects of reproduction, heredity, growth and development.

Prerequisite: Courses in similar field.

W 0837 502 DETERMINANTS OF ENVIRONMENTAL HEALTH 3 sh

Advanced study of health and safety aspects of the environment; air, water, industrial pollution and the impact of expanding population on health problems.

Prerequisites: Courses in similar field or instructor's permission.

W 0837 503 RESEARCH METHODS IN HEALTH 3 sh

Theoretical and practical experiences in methods of inquiry, designing of research studies, utilization of various tools for gathering data, statistical analysis of data, and writing of research proposals.

Prerequisite: 0837 528

W 0837 505 SCHOOL HEALTH PROGRAM MANAGEMENT 3 sh

Examines the various aspects of management theory pertinent to school health programs. Guiding principles and philosophical considerations of theory and practice are also reviewed. Includes management techniques, staffing patterns and accounting procedures essential for the successful school health program. Evaluative devices are analyzed and reviewed to determine the effectiveness of the total program.

Prerequisites: Majors only.

W 0837 510 HEALTH EDUCATION WORKSHOP 3 sh

For teachers of health education, deeper understandings of subject matter, current methods, and techniques for the classroom, and considerations for curriculum development.

W 0837 512 ALCOHOL EDUCATIONAL WORKSHOP 3 sh

Current teaching materials, techniques and approaches in the alcohol education programs in schools and communities; physiological, psychological, sociological, legal, economic, religious, safety, and rehabilitative aspects.

Prerequisite: 0837 301, 313 or instructor's permission.

- W 0837 513 DRUG ABUSE SEMINAR** 3 sh
Advanced study in selected aspects of drugs; recent pharmacological, legal, economic and rehabilitative developments. Emphasizes individual project approach.
Prerequisites: 0837 301, 313 or instructor's permission.
- W 0837 514 VENEREAL DISEASE EDUCATION** 3 sh
Workshop emphasizing pathology, epidemiology, treatment and prevention of venereal disease. Includes consideration of school and community program development.
Prerequisites: Courses in similar field or instructor's permission.
- W 0837 516 SELECTED DEVELOPMENTS IN COMMUNITY HEALTH** 3 sh
Advanced study of aspects of community health; recent developments in air and water pollution, waste disposal and sanitation, and communicable disease protection.
Prerequisite: Courses in similar field or instructor's permission.
- W 0837 526 CURRICULUM DEVELOPMENT IN HEALTH EDUCATION** 3 sh
Nature and construction of comprehensive health education curricula, elementary grades through senior high school. Recommended for health education majors only.
Prerequisite: Basic course in health education and basic course in methods of teaching health education.
- W 0837 528 EVALUATION IN HEALTH** 3 sh
Measurement and evaluation processes relating to health in schools and communities: examination and development of research of instruments to evaluate behavior, knowledge and attitudes; interpretative and administrative factors involved in the evaluation process.
Prerequisite: A basic course in statistics or in tests and measurement.
- W 0837 530 SEMINAR IN BASIC ISSUES IN HEALTH** 3 sh
Contemporary health topics and problems are identified, interpreted and critically analyzed for development of deeper insights and understanding of the basic issues; individual or group research project.
- W 0837 531 INDEPENDENT STUDY IN HEALTH** 2-4 sh
Under the direction of departmental faculty member. Semester hours determined by department chairman following consultation with departmental research committee. For students in health professions only.
- W 0837 532 AIR POLLUTION** 3 sh
A consideration of the diverse factors contributing to air pollution, the physiological responses of critical organs to air pollution, public health and economic implications, air pollution control standards, and legislation, and principles of monitoring devices.
Prerequisite: General Chem., Anatomy and Physiology

**W 0837 535 HISTORY AND FOUNDATIONS OF
HEALTH I**

3 sh

Comprehensive historical study of our continual struggles against the forces of disease and infirmity. Includes health and medical practices of primitive peoples, ancient civilizations, the Middle Ages, and the Renaissance.

**W 0837 536 HISTORY AND FOUNDATIONS OF
HEALTH II**

3 sh

Comprehensive historical study of health and medical practices beginning with the 17th century and extending through the 20th century. Major health science discoveries are identified and the development of school health education is considered.

W 0837 603 RESEARCH PROJECT IN HEALTH

3 sh

Provides an intensive research experience for master's degree candidates in health education. It reflects the culmination of course work and involves the completion of a research document. All candidates must satisfactorily complete an oral examination based on the research experience.

Prerequisites: 0837 503, 0837 528 and successful completion of the departmental written comprehensive examination.



HOME ECONOMICS

Chairperson and Graduate Advisor: Professor Lois Guthrie

The graduate program in home economics leads to the degree of Master of Arts in Home Economics. Students can specialize in three professional emphases: Consumer Studies and Home Management, Family Studies and Child Development, and Home Economics Education.

The program is designed to provide students with advanced study needed for college and university teaching, for leadership positions in various professions in business, for social welfare agencies, for public school and adult education programs, for research and for extension service.

ADMISSION REQUIREMENTS

Requirements for admission to graduate study are prescribed by the Division of Graduate Studies. A program of study is developed for each student depending on individual professional goals. Independent study can be planned with graduate faculty to meet special academic goals.

Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisite to graduate study. Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the undergraduate or graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HOME ECONOMICS

- I. Required Courses12-13 sh
 - 1301 507 Research in Home Economics3
 - 1301 509 Research Seminar or 1301-600 Thesis3 or 4
 - 1301 540 Interdisciplinary Study of the Family3
 - 1301 590 Contemporary Issues in Home Economics3
- II. Professional Emphasis9 sh
 - Select from one of the following groups:
 - A. Consumer Studies—Home Management
 - 1301 530 Consumer Behavior3
 - 1301 531 Family Financial Problems3
 - 1301 532 Family and Consumer Economics3
 - 1301 535 Consumer and Family Law3
 - 1301 560 Housing the Family3
 - 1301 570 The Management of Family Resources3
 - 1301 571 Problem-Solving in Family Counseling3
 - 1301 572 Management Seminar3
 - 1308 403 Consumer Education Techniques3

- B. Family Studies—Child Development
 - 1301 503 Program Development in Family Life Education 3
 - 1301 514 The Child in the Family3
 - 1301 542 Dynamics of Family Interaction3
 - 1301 544 Intercultural Study of the Family3
 - 1305 445 The Inner City Family3
- C. Home Economics Education
 - 1301 501 Seminar in Home Economics Education3
 - 1301 503 Program Development in Family Life Education 3
 - 1301 506 Supervision of Home Economics3
 - 1308 403 Consumer Education Techniques3
- III. Home Economics Electives3-9 semester hours
To be selected from approved home economics courses.
- IV. Electives Outside the Department3-9 semester hours
- V. Comprehensive Examination, both oral and written to be taken after completing 24 semester hours of graduate study. Students must apply to the graduate advisor at the beginning of the semester in which the exams will be taken. The comprehensive examination is given each Fall and Spring semester.
- VI. Candidates who choose to write a thesis will register for 1301 600 for four semester hours credit in lieu of 1301 509 Research Seminar. The comprehensive exam is waived. A thesis defense is required upon the completion of the thesis before the candidate's graduate Thesis Committee.

Minimum: 33 semester hours

HOME ECONOMICS

Course Descriptions

X 1301 501 SEMINAR HOME ECONOMICS EDUCATION 3 sh
Identifying the issues in home economics education at all levels. Trends as a basis for managing, change in curriculum, and teaching. Each participant will design a project and plans for implementation.

X 1301 503 PROGRAM DEVELOPMENT IN FAMILY LIFE 3 sh
EDUCATION

Analysis of the development of family living programs in public schools and other agencies. Current problems; practices, and trends. Designing and planning for the implementation of innovative programs.

X 1301 506 SUPERVISION OF HOME ECONOMICS 3 sh
Curricula, current trends, facilities, professional literature and evaluation techniques. Competencies for the role of supervisor analyzed. Provides elective credits toward supervisor's certificate.

Prerequisite: Classroom teaching experience.

X 1301 507 RESEARCH IN HOME ECONOMICS **3 sh**

Designed to provide basic research and statistical literacy so that students can develop a research proposal in its entirety in any one area of home economics.

Prerequisite: 1301 304 or equivalent or instructor's permission.

X 1301 508 INDEPENDENT STUDY **1-3 sh**

An opportunity to study in depth, areas of home economics which are not offered in the regular curriculum. Approval of department chairman required.

Prerequisite: Instructor's permission.

X 1301 509 RESEARCH SEMINAR **3 sh**

Library or experimental research on specific problems of limited scope. Work may be taken in the following areas: Child and family, family and consumer studies, family housing, foods, nutrition, textiles, clothing or home management.

Prerequisite: 1301 507

X 1301 514 CHILD IN THE FAMILY **3 sh**

An intensive study of the theories and research related to child rearing techniques analysis of factors influencing parental practices and their effects on the child.

X 1301 520 CLOTHING AND HUMAN BEHAVIOR **3 sh**

Analysis of factors affecting appearance and satisfaction in clothing. Economic, sociological and psychological aspects of clothing in relation to the individual.

X 1301 530 CONSUMER BEHAVIOR **3 sh**

Investigating consumer behavior from the consumers perspective. Emphasis on individual perception, motivation and personality, family organization, social class, subcultures and national economic trends.

X 1301 531 FAMILY FINANCIAL PROBLEMS **3 sh**

Study of families with financial concerns and crises. Emphasis on effective use of money to meet families life styles and alleviate problem areas.

X 1301 532 FAMILY AND CONSUMER ECONOMICS **3 sh**

Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.

X 1301 535 CONSUMER AND FAMILY LAW **3 sh**

Laws and policies of institutions which affect family functions, relationships and welfare.

X 1301 540 INTERDISCIPLINARY STUDY OF FAMILY **3 sh**

Contributions various academic disciplines (History, Anthropology, Biology, Economics, as well as Psychology and Sociology) make towards a more comprehensive understanding of family life.

- X 1301 542 DYNAMICS OF FAMILY INTERACTION

3 sh
- Critical review of concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.
- X 1301 544 INTERCULTURAL STUDY OF FAMILY

3 sh
- Analytical study of cross cultural regularities and differentials in family structures. Functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of family as well as a broad acquaintance with empirical studies and research.
- X 1301 560 HOUSING THE FAMILY

3 sh
- Analysis of location, structure, design, furnishings and equipment as a setting for the physical and emotional development of the individual and the family.
- X 1301 570 MANAGEMENT OF FAMILY RESOURCES

3 sh
- Family as a decision-making unit directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential and utilization.
- X 1301 571 PROBLEM SOLVING IN FAMILY COUNSELING

3 sh
- Counseling families in problem-solving on resource use, including the resources of time, energy, attitudes and material and non-material goods and services.
- X 1301 572 MANAGEMENT SEMINAR

3 sh
- Application of personal management concepts to one's professional role with the goal of developing more effective ways of handling professional situations and responsibilities.
- X 1301 580 NEW FINDINGS IN NUTRITION

3 sh
- Recent developments in nutrition and a critical review of fundamentals.
- X 1301 590 CONTEMPORARY ISSUES—HOME-ECONOMICS

3 sh
- A seminar dealing with issues in home economics with special emphasis on designing programs for social change.
Prerequisites: Matriculation and 20 sh in graduate program.

The following Senior-Graduate courses are available as electives with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
X 1308 403 Consumer Education Techniques	3
X 1308 404 Evaluation in Home Economics	3
X 1301 408 Workshop in Home Economics	3
X 1305 445 The Inner City Family	3

INDUSTRIAL EDUCATION AND TECHNOLOGY

Chairperson: Dr. George Olsen
Graduate Advisor: Dr. Arthur W. Earl

Graduate study in industrial education and technology is designed to improve the professional training of industrial education teachers, to enhance their teaching proficiency through study of trends and developments in the fields, to improve the organization of the industrial arts laboratory and to provide a basis for work in administration and supervision. Emphasis is given to advanced work in industrial education and related fields which broaden professional experiences and accent industrial concepts.

Graduate programs of students matriculated in the department are tailored to the individual's needs through consultation with the graduate advisor. Students must meet the departmental requirements for either a thesis program (Option A) or a non-thesis program with a comprehensive examination (Option B).

Graduate students matriculated in the Master of Arts degree program who desire certification as a Supervisor of Industrial Education or as a Coordinator of Cooperative Industrial Education can arrange their programs with the graduate advisor.

ADMISSION REQUIREMENTS

Study toward the Master of Arts degree in industrial education and technology presupposes the completion of an undergraduate major in the same area. Individuals who have undergraduate majors in this area, but do not wish to work toward a degree, may enroll in graduate courses in the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY (OPTION A)

I.	Required Courses	
A.	General.....	6 sh
	0824 503 Methods of Research.....	3
	Education Elective	3
B.	Industrial Education Specialization.....	12 sh
	1. Required	
	0996 502 Curriculum Construction & Course	3
	Organization in Industrial Education	
	0996 509 Industrial Education Facilities Planning..	3
	0996 607 Research Seminar in Industrial	
	Education (Full Year).....	6

2. Electives6 sh
Six semester hours approved by departmental advisor
to be selected from: 0996 501, 503, 504, 505, 606
- II. Free Electives4 sh
Selected from among any 500 or 600 level course for which the
student meets any departmental prerequisites or restrictions.
Senior-graduate (400 level) courses must be approved by the
graduate advisor.
- III. Thesis4 sh
Each candidate for this program will select a thesis topic, thesis
advisor, two thesis committee members (one within the depart-
ment, one from outside the department) and register according to
department and college policy. An oral examination based on the
completed thesis is part of the thesis requirement.

minimum: 32 semester hours

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY (OPTION B)

- I. Required Courses
 - A. General6 sh
 - 0824 503 Methods of Research3
 - Education Elective3
 - B. Industrial Education Specialization12 sh
 1. Required
 - 0996 502 Curriculum Construction & Course3
 - Organization in Industrial Education
 - 0996 509 Industrial Education Facilities Planning..3
 - 0996 607 Research Seminar in Industrial
 - Education.....6
 - (Full Year)
 2. Electives12 sh
Twelve semester hours approved by departmental ad-
visor to be selected from 0996 501, 503, 504, 505, 606.
- II. Free Electives6 sh
Selected from among any 500 or 600 course level for which the
student may meet any departmental prerequisites or restrictions.
Senior-graduate (400 level) courses must be approved by the
graduate advisor.
- III. Comprehensive Examination
A written comprehensive examination, scheduled twice each year
during the fall and spring semester is required of all candidates for
the Master of Arts Degree within this program option.

minimum: 36 semester hours

Certification

The department offers three forms of certification:

1. Supervisor
2. Cooperative Industrial Education Coordinator
3. Post-Baccalaureate
 - (a) initial field
 - (b) additional field

For more details, see certification section of this catalog or contact the department graduate advisor.

INDUSTRIAL EDUCATION AND TECHNOLOGY

Course Descriptions

Y 0996 501 HISTORICAL AND CONTEMPORARY INDUSTRIAL EDUCATION LITERATURE 3 sh

Material surveyed for applicability to laboratory teaching and professional improvement: Historical writings, research literature, materials provided by corporations and government agencies and pertinent reference works.

Y 0996 502 CURRICULUM CONSTRUCTION & COURSE ORGANIZATION IN INDUSTRIAL EDUCATION 3 sh

Development of industrial education courses of study and instructional materials.

Y 0996 503 CONTEMPORARY PROBLEMS IN INDUSTRIAL EDUCATION 3 sh

Seminar group exploration of a current problem or issue in contemporary industrial education; a research, discussion, presentation format.

Y 0996 504 INSTRUCTIONAL MATERIALS IN INDUSTRIAL EDUCATION 3 sh

The research, creation, development, and application of innovative industrial education methodology and instructional materials.

Prerequisite: 0841 400 or instructor's permission.

Y 0996 505 SUPERVISION OF INDUSTRIAL EDUCATION 3 sh

Principles and practices are discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.

Y 0996 509 INDUSTRIAL EDUCATION FACILITIES PLANNING 3 sh

Planning and equipment selection: practical application of architectural aspects, floor plan layouts, equipment selection, bid preparation and two- or three-dimensional models.

Y 0996 606 INDEPENDENT STUDY IN INDUSTRIAL EDUCATION I, II, or III **1-3 sh**

Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved industrial course or seminar related to the student's special area of interest. May be taken three times, with the graduate advisor's approval, for a total of three semester hours.

Prerequisite: Application through department office prior to registration.

Y 0996 607 RESEARCH SEMINAR IN INDUSTRIAL EDUCATION **3 sh**

A survey of industrial research, technical reports, centers, institutes, laboratories and material standards. The undertaking of an industrial research and development problem, reflecting the graduate students' area of concentration, and the preparation of a publishable technical report. It runs a full academic year from September to June.

Prerequisite: 0824 503.

Certification

Y 0997 501 PRINCIPLES & PHILOSOPHY OF COOPERATIVE INDUSTRIAL EDUCATION **3 sh**

Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative industrial education programs.

Y 0997 502 CURRICULUM CONSTRUCTION IN COOPERATIVE INDUSTRIAL EDUCATION **3 sh**

Techniques designed to meet needs of related and laboratory teaching, and school work programs; curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

Y 0997 503 PROBLEMS IN ORGANIZING & TEACHING COOPERATIVE INDUSTRIAL EDUCATION PROGRAMS **3 sh**

Various practices for coordinating high school programs with needs of local industry. Emphasis on supervisory responsibilities within the school and cooperation required with public and private agencies.

Y 0826 582 CAREER GUIDANCE AND OCCUPATIONAL INFORMATION **3 sh**

See course description under Counseling, Human Services and Guidance.

The following Senior-Graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

Y 0990 408	Field Studies of Industry.....	2
Y 0990 409	Cooperative Industrial Work Experience I, II or III.....	2 each

Y 0990 411	Design in Industry	3
Y 0990 422	Engineering Graphics	3
Y 0990 423	Architectural Design	3
Y 0990 431	Offset Lithography.....	3
Y 0990 432	Advanced Offset Lithography.....	3
Y 0990 433	Color Photography.....	3
Y 0990 434	Color Separation	3
Y 0990 441	Wood Technology.....	3
Y 0990 442	Residential Construction.....	3
Y 0990 451	Plastics Processing Technology	3
Y 0990 452	Plastics Mold & Form Design-Development & Construction.....	3
Y 0990 461	Management & Production Technology.....	3
Y 0990 466	Welding Technology	3
Y 0990 471	Electronic Circuit Applications.....	3
Y 0990 472	Industrial Electronic Circuits.....	3
Y 0990 482	Fluid Power	3
Y 0990 483	Fluidics.....	3
Y 0990 484	Alternative Energy Conversion Systems.....	3
Y 0990 485	Wind Energy Conversion Systems	3
Y 0990 490	Jewelry and Lapidary.....	3
Y 0990 491	Construction Technology.....	3
Y 0990 492	Manufacturing Technology.....	3
Y 0990 495	Industrial Education for the Elementary Grades....	3
Y 0990 497	Historical Restoration.....	1-9
Y 0990 498	National/International Work Study in Technology	1-9

LINGUISTICS

Although there is no degree or certification program associated with this department, the following graduate courses may be selected by students in other programs who have their advisor's prior approval.

LINGUISTICS

Course Descriptions

N 1505 510 INTENSIVE LINGUISTICS FOR TEACHERS 3 sh

Intensive study of the technical concepts of linguistics that are necessary for teaching basic classroom skills (English, Reading, Writing, Foreign Languages) and for understanding how children use language in the classroom (language development, social dialects, speech events).

N 1505 515 ADVANCED STRUCTURE OF AMERICAN ENGLISH 3 sh

Detailed analysis of the phonological and grammatical structures of American English; advanced study of the social and stylistic varieties of American English; various theories of English grammar studied.

Prerequisite: Introduction to general Linguistics or equivalent.

N 1505 525 SOCIOLINGUISTICS IN EDUCATION 3 sh

Study of language in its social context. Topics include language and ethnicity, language and social class, standard vs. nonstandard varieties of language, "code-switching", pidginization and creolization, attitudes towards nonstandard varieties of language.

N 1505 540 LANGUAGE AND CULTURE IN MINORITY EDUCATION 3 sh

Intended to develop an awareness in the student of the intimate connection between language, culture, and ethnic pride and identity. Study of the communication problems of bilingual children due to differences in the verbal and nonverbal patterns of communication survey of the various instructional methods and models employed in teaching children from different linguistic and cultural backgrounds; study of the correlation between language and socio-economic class.

N 1505 580 LANGUAGE TESTING 3 sh

Basic concepts of testing reliability, validity, correlation, etc. Statistical concepts; correlation coefficient, standard deviation, etc. Item analysis, testing individual skills, listening and reading comprehension, oral writing proficiency. Testing cultural awareness. Measuring language dominance in bilingualism.



MATHEMATICS AND COMPUTER SCIENCE

Chairperson: Professor Robert Garfunkel

Graduate Advisor: Dr. Philip W. Zipse

MASTER OF ARTS DEGREE IN MATHEMATICS

To meet the needs of graduate students interested in extensive study of mathematical theory and/or application, the department offers a Master of Arts Degree in Mathematics with concentration in the areas of Pure and Applied Mathematics, Statistics, and Computer Science. To meet the needs of graduate students interested in the teaching of mathematics, the department offers a Master of Arts Degree in Mathematics with a concentration which is a special combination of courses in mathematics and mathematics education.

A cooperative doctoral program between Montclair State College and Teachers' College/Columbia University is available to qualified students in the Mathematics Education program. Further information on this program is available from the Chairperson.

ADMISSION REQUIREMENTS

A candidate for the Master of Arts Degree in Mathematics must consult the graduate advisor of the department of mathematics and computer science before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of 33 semester hours of course work, is prepared in consultation with the graduate advisor. At least 27 semester hours of the Master of Arts program should be at the 500 level. Changes in the work program are made only with the written approval of the graduate advisor.

The candidate for the Master of Arts Degree in Mathematics must present an undergraduate major of at least 30 semester hours in mathematics. Courses in a related area that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit. All students must meet the admission requirements for graduate study at Montclair State College.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MATHEMATICS PURE AND APPLIED

- I. Required: Two one-year courses selected as follows12 sh
.....12 sh
 Analysis: 1701 521, 522 1701 525, 526
 Algebra: 1701 531, 532 1701 535, 536
- II. Mathematics Electives:15 sh
 Courses selected from: 1701 520 to 569
 0701 580 to 594
 1701 420 to 469
 At least 12 semester hours must be at the 500 level. Students must take 425 and 426 if not previously taken.
- III. Free Electives:6 sh
- IV. A Comprehensive Examination in Pure and Applied Mathematics must be taken.

STATISTICS CONCENTRATION

- I. Required:12 sh
 Courses selected from: 1701 540 to 549
- II. Mathematics Electives:15 sh
 Courses selected from: 1701 520 to 569
 0701 580 to 594
 1701 420 to 469

At least 12 semester hours must be at the 500 level. Students must take 425 and 426 if not previously taken. Students must take 440 or 443 if not previously taken. Students must take a computer science course if not previously taken.

- III. Free Electives:6 sh
- IV. A Comprehensive Examination in Statistics and Mathematics must be taken.

COMPUTER SCIENCE CONCENTRATION

- I. Required:12 sh
Courses selected from: 0701 560 and 580 to 594
- II. Mathematics Electives:15 sh
Courses selected from: 1701 520 to 569
1701 420 to 469

At least 12 semester hours must be at the 500 level. Students must take 425 and 426 if not previously taken. Students must take 431 or 436 if not previously taken. Students must take 440 or 443 if not previously taken.

- III. Free Electives:6 sh
- IV. A Comprehensive Examination in Computer Science and Mathematics must be taken.

MATHEMATICS EDUCATION CONCENTRATION

- I. Required:12 sh
Courses selected from: 1701 570 to 579
- II. Mathematics Electives:15 sh
Courses selected from:

- Algebra: 1701 431, 531, 532, 535, 536
- Analysis: 1701 420, 425, 426, 521, 522, 525, 526
- Statistics: 1701 440, 443, 540 to 549
- Geometry: 1701 450, 551, 554, 555
- Computer Science: 0701 560, 580 to 594

At least 9 semester hours must be at the 500 level. Students must take courses from at least 3 of the above 5 areas.

- III. Free Electives:6 sh
- IV. A Comprehensive Examination in Mathematics and Mathematics Education must be taken.

Note: For Teacher Certification, additional courses may be required.

MATHEMATICS

Course Descriptions

S 1701 510 WORKSHOP IN MATHEMATICS EDUCATION I 3 sh
Specific contemporary topics and current issues in the junior and senior high school. Available experimental and commercial textbooks. Evaluation. Training of key in-school personnel. Problems of implementation.

S 1701 511 WORKSHOP IN MATHEMATICS EDUCATION II 3 sh
Specific contemporary topics and current issues in the junior and senior high school. Available experimental and commercial textbooks. Mathematical content. Sources of aids and equipment. Evaluation, training of key in-school personnel. Problems of implementation.

S 1701 520 SET THEORY 3 sh
Historical development, paradoxes, ordered sets, Schroder-Bernstein theorem. Axiom of choice, transfinite induction, cardinal and ordinal numbers.
Prerequisites: 1701-222 or equivalent.

S 1701 521 REAL VARIABLES I 3 sh
Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP, metric, normed vector, Banach and Hilbert spaces.
Prerequisites: 1701 425 or equivalent.

S 1701 522 REAL VARIABLES II 3 sh
Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP, metric, normed vector, Banach and Hilbert spaces.
Prerequisites: 1701 521.

S 1701 525 COMPLEX VARIABLES I 3 sh
Integration and differentiation in the complex domain, Cauchy's theorem and integral formula, Laurent expansion, residues, elements of conformal mapping, series and product representations.
Prerequisite: 1701 425 or equivalent.

S 1701 526 COMPLEX VARIABLES II 3 sh
Integration and differentiation in the complex domain, Cauchy's theorem and integral formula, Laurent expansion, residues, elements of conformal mapping, series and product representations.
Prerequisites: 1701 525.

S 1701 531 ABSTRACT ALGEBRA I 3 sh
Basic algebraic structures including groups, rings, fields, modules and lattices.
Prerequisites: 1701 431 or equivalent.

S 1701 532 ABSTRACT ALGEBRA II 3 sh
Basic algebraic structures including groups, rings, fields, modules and lattices.
Prerequisite: 1701 531.

S 1701 535 LINEAR ALGEBRA I 3 sh
Vector spaces and linear transformations, including inner products, matrix representations, binary and quadratic forms, eigenvectors, canonical forms, and functions of matrices.
Prerequisites: 1701 335 or equivalent.

S 1701 536 LINEAR ALGEBRA II**3 sh**

Vector spaces and linear transformations, including inner products, matrix representations, binary and quadratic forms, eigenvectors, canonical forms, and functions of matrices.

Prerequisites: 1701 535.

S 1701 537 MATHEMATICAL LOGIC**3 sh**

Topics include propositional and predicate calculus, model theory, godel's completeness theorems and decidability.

Prerequisites: 1701 436 or equivalent.

S 1701 540 PROBABILITY**3 sh**

Sample spaces and events, combinatorial analysis, conditional probability and stochastic independence, random variables and probability distributions, expected value and variance, probability generating functions, continuous random variables.

Prerequisites: 1701 340 or equivalent.

S 1701 541 APPLIED STATISTICS**3 sh**

Review of estimation and hypothesis testing for one sample and two sample problems, introduction to non-parametric statistics, sampling techniques, and linear regression, fundamental principles of design, analysis of variance and analysis of covariance.

Prerequisites: 1701 440 or equivalent.

S 1701 542 INTRODUCTION TO STOCHASTIC PROCESSES**3 sh**

Generating functions, convolutions, recurrent events, random walk models, Gambler's ruin problems, Markov chains and processes, time dependent stochastic processes, queuing theory and epidemic models.

Prerequisite: 1701 540.

S 1701 543 STATISTICAL THEORY**3 sh**

Review of the normal, gamma and chi-square distributions, sampling theory and the 't' and 'f' distributions, point estimation of one parameter, minimum variance, unbiased estimation, method of moments estimators, maximum likelihood estimation and interval estimation, testing hypotheses, Neyman-Pearson Lemma, likelihood ratio tests, power, bivariate normal distribution.

Prerequisite: 1701 443.

S 1701 545 MULTIVARIATE ANALYSIS**3 sh**

Statistical procedures for the multivariate normal distribution. Parameter estimation and derived distributions, Hotelling's T statistic, multivariate linear hypothesis, principal component analysis.

Prerequisite: 1701 541, 548

S 1701 546 NON-PARAMETRIC STATISTICS**3 sh**

Selected distribution-free tests and estimation techniques including Sign, Kolmogorov-Smirnov, Wilcoxon Signed Rank, Mann-Whitney, Chi-Square, rank correlation, Kendall's Tau, Kruskal-Wallis, Friedman, McNemar, and others.

Prerequisite: 1701 541

S 1701 547 DESIGN AND ANALYSIS OF EXPERIMENTS 3 sh

Fundamental principles of design, completely randomized experiments, randomized block, latin squares, Graeco-Latin squares, split-plot design, factorial experiments, confounding fractional replication, experimental and sampling errors.

Prerequisites: 1701 541, 548.

S 1701 548 APPLIED REGRESSION ANALYSIS 3 sh

Matrices, linear regression, correlation, analysis of residuals, multiple regression polynomial regression, partial correlation, stepwise regression, regression and model building, regression applied to analysis of variance problems, introduction to nonlinear regression.

Prerequisite: 1701 440 or 443.

S 1701 549 SAMPLING TECHNIQUES 3 sh

Sampling and survey methodology, basic sampling theory, simple, stratified, random, cluster, systematic and area sampling, sampling errors and estimation procedures.

Prerequisite: 1701 440 or 443.

S 1701 551 TOPOLOGY 3 sh

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities, metrizability, introductory algebraic topology, homology groups and homotopy.

Prerequisites: 1701 425 or equivalent.

S 1701 554 PROJECTIVE GEOMETRY 3 sh

Projective planes and spaces are studied by synthetic and analytic approaches. Topics covered include the theorems of Desargues and Pappus, harmonic sequences, projectivities, coordinatization, finite planes, and conics.

Prerequisite: 1701 335 or equivalent.

S 1701 555 DIFFERENTIAL GEOMETRY 3 sh

Application of vectors to the study of classical three-dimensional geometry. Topics include plane and space curves, first and second fundamental forms, lines of curvature, asymptotic lines, geodesics.

Prerequisite: 1701 222 or equivalent.

S 1701 560 NUMERICAL ANALYSIS 3 sh

Polynomial approximation, interpolation, numerical solution of equations, linear algebraic equations, matrix inversion and eigenvalue analysis, numerical solution of differential equations.

Prerequisite: 1701 335, 425, 0701 183.

S 1701 564 ORDINARY DIFFERENTIAL EQUATIONS 3 sh

Existence and uniqueness of solutions, periodic solutions, linear and non-linear systems, singularities, stability theory.

Prerequisite: 1701 335, 420.

S 1701 566 PARTIAL DIFFERENTIAL EQUATIONS **3 sh**

First order equations, separation of variables, Fourier's series, hyperbolic, parabolic and elliptic equations, transform methods.

Prerequisite: 1701 335, 420, 426.

S 1701 568 APPLIED MATHEMATICS I **3 sh**

Discrete mathematics with applications to the social and behavioral sciences, initial and boundary value problems with applications to the physical sciences, Green's functions, integral equations, calculus of variations.

Prerequisites: 1701 335, 420, 425.

S 1701 569 APPLIED MATHEMATICS II **3 sh**

Discrete mathematics with applications to the social and behavioral sciences, initial and boundary value problems with applications to the physical sciences, Green's functions, integral equations, calculus of variations.

Prerequisite: 1701 568.

S 1701 570 ADMINISTRATION AND SUPERVISION OF MATHEMATICS **3 sh**

Problems of organization, administration and supervision in the mathematics program of the school. Functions, duties and qualifications of the supervisor investigated. Current problems and research findings.

S 1701 571 CURRICULUM CONSTRUCTION IN MATHEMATICS **3 sh**

Contemporary proposals for the mathematics of grades k through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

S 1701 572 TEACHING OF GENERAL MATH **3 sh**

Mathematics programs for the non-college bound high school student. Investigation of contemporary literature. Basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

S 1701 573 MATHEMATICS MATERIALS FOR THE TEACHER OF MATHEMATICS **3 sh**

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, aids, and models and to material for the mathematics laboratory and club activities.

S 1701 574 PROBLEM ANALYSIS IN SECONDARY MATHEMATICS **3 sh**

Psychology and techniques of problem-solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine

problems from high school mathematics. Problem formation and solution.

Prerequisite: 1701 222 or equivalent.

S 1701 575 SELECTED TOPICS IN MATHEMATICS 3 sh

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics selected to give the teacher a professionalized subject matter viewpoint of algebra, geometry, number theory, real and complex analysis, probability and statistics.

Prerequisites: 1701 222 or equivalent.

S 1701 576 RESEARCH SEMINAR IN MATH EDUCATION 3 sh

Designed for matriculated graduate students in the mathematics education program. Purpose to have the students survey and analyze recent research projects.

Prerequisite: Admission to master's program.

**S 1701 577 MATHEMATICS EDUCATION IN THE 3 sh
ELEMENTARY SCHOOL**

The contemporary mathematics curriculum of the elementary and middle school. Content: The role of behavioral objectives and learning theory in curriculum development, teacher training, related research findings.

**S 1701 578 DIAGNOSTIC AND PRESCRIPTIVE 3 sh
TECHNIQUES FOR TEACHING
MATHEMATICS BASIC SKILLS**

An investigation of the role of basic skills instruction in all areas of the mathematics curriculum.

Prerequisites: Certification as mathematics teacher.

S 1701 595 SEMINARS IN MATHEMATICS 3 sh

Guided study of selected topics in major field of interest.

Prerequisite: Instructor's permission.

The following Senior-Graduate courses may be elected with the permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

	semester hours
1701 420 Differential Equations	3
1701 423 Introduction to Complex Variables	3
1701 425 Advanced Calculus I	3
1701 426 Advanced Calculus II	3
1701 428 Introduction to Topology	3
1701 431 Foundations of Modern Algebra	3
1701 433 Theory of Numbers	3
1701 436 Elements of Logic	3
1701 440 Statistical Methods for Research	3

1701 443	Statistics: Theory and Application	3
1701 450	Foundations of Geometry	3
1701 460	Introduction to Applied Mathematics	3
1701 463	Introduction to Numerical Analysis	3
1701 465	Linear Programming and Game Theory	3
1701 475	History of Mathematics	3

MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

To meet the needs of students pursuing careers in computer science and in fields where computer science expertise has become essential, the department offers a Master of Arts Degree in Computer Science. The degree program is software oriented and is designed to afford the student the opportunity to become involved with the more practical aspects of the computer science area.



ADMISSION REQUIREMENTS

Students may apply for matriculation in the degree program provided they can satisfy the following three prerequisites:

1. They must possess a bachelors degree from an accredited institution with either:
 - a. a major in computer science or mathematics
 - b. a major in natural science or engineering
 - c. another major with an overall cumulative grade-point average of 3.0 (B) or higher

2. They must have taken at least 15 undergraduate credits in mathematics including 3 semesters of calculus or the equivalent. Deficiencies in mathematics can be rectified by taking 501, 502 accelerated mathematics course. Generally, these will be "prerequisite courses" on the graduate work program.
3. They must be proficient in the following computer programming languages:

- a. Fortran or PL/I or Cobol
- b. Assembly Language (preferably for IBM 360/370)

A one-semester course in these languages or one year's programming experience in industry will suffice for this requirement. Deficiencies in computer science can be rectified by taking 505, 506 accelerated computer science courses. Generally, these will be "prerequisite courses" on the graduate work program.

All students must meet the admission requirements for graduate study at Montclair State College.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

- I. Required:21 sh
Courses selected from: 0701 560 and 580 to 594
- II. Mathematics, Computer Science Electives:6 sh
Courses selected from: 1701 520 to 569
0701 580 to 594
1701 420 to 469
Students must take 501 and 502 if not previously taken.
Students must take 505 and 506 if not previously taken.
- III. Free Electives:6 sh
- IV. A Comprehensive Examination in Computer Science must be taken.
Note: Courses 501, 502, 505, 506 are not to be counted among the 33 semester hours required for completion of the program.

COMPUTER SCIENCE Course Descriptions

S 0701 505 FUNDAMENTALS OF COMPUTER SCIENCE I 3 sh
An introduction to programming using PL/I, Fortran and Cobol, the design of Algorithms, character processing, numerical computing and errors, data structures, files, batch processing and JCL.
Prerequisite: Instructor's permission.

S 0701 506 FUNDAMENTALS OF COMPUTER SCIENCE II 3 sh
An introduction to assembler language including addressing techniques subroutine linkage, input/output and macros computer organization in-

cluding memory, input/output units, basic logic design, and computer architecture.

Prerequisite: S 0701 505 or equivalent.

S 0701 580 ADVANCED PROGRAMMING 3 sh

Assembler language programming including digital representation of data, subroutine linkage, macro definition and generation, and input/output routines. Additional programming techniques including documentation, structured programming, address modification and indexing, string manipulation, and some of the more sophisticated features of the operating system and job control language.

Prerequisite: 0701 506 or equivalent.

S 0701 581 SYSTEMS PROGRAMMING 3 sh

Assembly languages, macros, subroutines, data structures, vectors and arrays, tables, hash coding, stacks, lists, data base system.

Prerequisites: 0701 580.

S 0701 582 THEORY OF AUTOMATA AND FORMAL LANGUAGES 3 sh

Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, turing machines, computability, deterministic languages, linear bounded automata and stack automata.

Prerequisites: 0701 506, 431 or equivalent.

S 0701 583 COMPUTER ALGORITHMS I 3 sh

Data structures, string processing, searching and sorting, list processing, information theory, advanced programming techniques, and applications.

Prerequisites: S 0701 506 or equivalent.

S 0701 584 OPERATING SYSTEM DESIGN 3 sh

Design and implementation of operating systems, multi-programming, multiprocessor, device management, scheduling, segmentation, paging, virtual memory, case studies.

Prerequisite: S 0701 581, 582

S 0701 585 TOPICS IN COMPUTER SCIENCE 3 sh

Recent developments in the field, topics such as Monte Carlo methods, simulation and special areas of application may be selected.

Prerequisite: S 0701 580.

S 0701 586 INFORMATION RETRIEVAL AND SYSTEM DESIGN 3 sh

Random and sequential files, file organization and processing. Access methods, data bases, system dynamics, concepts and design of information systems. Case studies and applications. Programming language cobol or PL/I.

Prerequisite: S 0701 506 or equivalent.

S 0701 587 MICROCOMPUTERS AND COMPUTER INTERFACES **3 sh**

Introduction to chip technology and microprocessors; microcomputer architecture, instruction sets and programming, microcomputer peripherals and interfaces.

Prerequisite: S 0701 506 or equivalent.

S 0701 588 COMPUTER ALGORITHMS II **3 sh**

Analysis and computer implementation of sorting and searching algorithms. Data structures. List processing and applications.

Prerequisites: 0701 583.

S 0701 590 COMPUTER SIMULATION OF CONTINUOUS SYSTEMS **3 sh**

Numerical integration methods, integration, packages, integration error, computer solution of the following types of problems: initial value problems, boundary value problems, integral equations, integro-problems, integro-differential equations and difference-differential equations.

Prerequisites: 1701 420, 0701 560, 580.

S 0701 591 COMPILER THEORY AND CONSTRUCTION **3 sh**

Introduction to the formal description of programming languages, the theory of parsing, and the concepts and techniques used in the construction of compilers.

Prerequisites: 0701 580.

MUSIC

Chairperson: Professor Leonard Arner

Graduate Advisor: Dr. Jack Sacher

Graduate study in music offers three concentrations leading to the degree of Master of Arts: performance, theory/composition and music education. Performance stresses applied music skills; theory/composition stresses creativity and the structure of music; music education stresses philosophical and practical approaches to the work of the music specialist in the American public school.

Although the study of music theory and of applied music is required of all graduate students regardless of the concentration, each concentration provides for individualized course election in accordance with the background, needs and interests of the student.

Registration in applied music and theory is dependent on the placement examination administered by the department; students may not register for work in these areas until the examination has been taken (see below under Admission Requirements).

ADMISSION REQUIREMENTS

In addition to the general College graduate admission requirements stated in this bulletin (see Admission to Graduate Study), all students must present an undergraduate major in music with at least 40 semester hours of work in theory, music history and private study in a performance medium. Courses in music education may be included as part of this background.

Matriculation as a graduate music major requires taking the music department's Audition and Placement Examination. Information regarding the nature of this examination and the scheduling of it must be specifically requested from the Graduate Admissions Office by the student. Applications to take the examination should be sent to "Chair, Auditions, Department of Music," no less than two weeks prior to the examination.

All applicants must demonstrate familiarity with musical vocabulary and literature and proficiency in the following: performing primary, sight singing, aural and written theory, score analysis, listening analysis, and piano secondary skills (keyboard harmony, sight-reading of chorale literature and the like). Audition literature in the primary medium must represent significant solo material from a variety of eras, one of which must be contemporary. Applicants majoring in orchestral instruments must also present significant solo passages or ensemble passages from orchestral literature.

Applicants to the theory/composition concentration must submit a portfolio of compositions and/or analytical studies for consideration by the theory faculty.

Applicants to the performance concentration must present an undergraduate major in the primary medium (including at least six semesters of study plus a graduation recital) or professional experience satisfactory to the music department.

Applied Music

Special regulations and procedures for the study of Applied Music are available from the Graduate Advisor. Tuition for the study of Applied Music is based on a special fee structure, information regarding which is available from the Registrar or the Department of Music.

Applied Music may be taken for academic credit only after the student has completed the Department Audition and Placement Examination. Applied music may be studied only with MSC faculty or with teachers approved by the department. Every course number in the area of Applied Music (prefix 1004) requires the written permission of the Graduate Advisor, the instructor and the Department Chairman. These signatures must be obtained by July 1 (for those desiring study in the fall) or by December 1 (for those studying in the spring). Lessons are normally not given in the summer. A signature of approval is good for only one semester.

No more than 2 semester hours of credit may be awarded for work in a secondary medium.

Courses for 4 and 6 semester hours are open only to majors in the performance (Applied Music) concentration who are expected to take jury examinations in each semester of applied music study in which a full recital is not given. The grade for the last semester of the sequence will not be given until all recital requirements are completed.

Examinations

All candidates for the degree of Master of Arts in music must pass the department's Comprehensive Examination, given each year in March. Applications for this examination must be made in writing to the Graduate Advisor by February 1 of the year in which the examination is to be taken.

Music Education majors will be examined in pedagogy, music theory, music history and any secondary performing media taken as part of the graduate program. Theory/Composition majors will take examinations in music theory and music history. Performance majors will be examined in music theory, and music history. Accompanying and voice majors will also be required to translate into acceptable English prose a passage from any two of the following: German, French, Italian.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MUSIC

Note: The 32 semester hours noted for each concentration is a minimum. Undergraduate transcripts and audition results may require additional undergraduate work before graduate courses are begun or graduate work in excess of the normal 32 semester hours.

Concentration in Performance

- I. Required courses18 sh
 - A. Either of the following sequences: 1004 504/505* or 1004 506/507/508* (*Grades to be withheld pending completion of recital requirements)12
 - B. Theory sequence 1016 511/5126
- II. Electives in Music History or Music Literature8 sh
- III. Humanities electives (art, language, literature, history, philosophy; may be at 400 level)6 sh
- IV. Two recitals0 sh
 - A. Each to include at least 60 minutes of music exclusive of intermissions or pauses.
 - B. One must be public; the other may be public or before a faculty jury. Procedures are available from the Graduate Advisor for music.
- V. Comprehensive examination in music theory and music history. (Voice majors and accompanying majors will be given language tests as well. Details are available from the Graduate Advisor.)
Note: Performance majors wishing to emphasize accompanying must arrange this with the Graduate Advisor.

Concentration In Theory/Composition

- I. Required Courses23 sh
 - A. Applied Music, selected with approvals of instructor, Graduate Advisor and Department Chairman from 1004 500/501/502/5034
 - B. Theory sequence 1016 511/5126
 - C. Private study in composition (may be either creative or analytical work) 1016 518/5196
 - D. Seminar or independent study in music history and research 3
 - E. Theory and composition4
- II. Humanities electives (art, language, literature, history, philosophy; (may be at 400 level)3 sh
- III. Music electives8 sh
- IV. Composition and public performance of one of the larger forms for orchestra, vocal ensemble or chamber ensemble0 sh
- V. Comprehensive examination in music theory, music history0 sh

Concentration in Music Education

- I. Required Courses16 sh
 - A. Applied Music, selected with approval of instructor, Graduate Advisor and Department Chairman from 1004 500/501/502/503, or master classes3
 - B. Education or Psychology (may be at 400 level)3
 - C. Theory sequence 1016 511/5126
 - D. Seminar in Music Education 0832 6033
- II. Music Education6 sh

- III. Humanities electives (art, theater, literature, history, philosophy; (may be at 400 levell)6 sh
- IV. Music electives4 sh
- V. Comprehensive examination in music theory, music history, music pedagogy0 sh

Certification

While some of the graduate courses listed in this catalog may be applied to certification as a teacher in the New Jersey public schools or as a Registered Music Therapist, the bulk of courses required by these certifications are available only at the undergraduate level. Certification is quite separate from a Master of Arts degree. Those interested should contact the Department of Music for an interview with the appropriate advisor prior to beginning the admission process.



MUSIC

Course Descriptions

H 0832 520 GENERAL MUSIC IN SECONDARY SCHOOL **3 sh**
Examination and practicum of methods, materials and philosophies of non-performance courses in the junior and senior high school.

H 0832 522 CLASSROOM METHODS: PIANO **2 sh**
Elementary and secondary classroom methods in the medium of the piano, dealing with principles, materials and methods in teaching groups of students. Designed for teachers wishing to exchange or learn new approaches to classroom techniques.

H 0832 523 CLASSROOM METHODS: BRASS INSTRUMENTS **2 sh**
Materials of 0832 522 as applied to the brass choir.

- H 0832 524 CLASSROOM METHODS: WOODWIND INSTRUMENTS** 2 sh
Materials of 0832 522 as applied to the woodwind choir.
- H 0832 525 CLASSROOM METHODS: STRINGED INSTRUMENTS** 2 sh
Materials of 0832 522 as applied to the string family.
- H 0832 526 CLASSROOM METHODS: PERCUSSION INSTRUMENTS** 2 sh
Materials of 0832 522 as applied to percussion instruments.
- H 0832 527 CLASSROOM METHODS: VOICE** 3 sh
Materials of 0832 522 as applied to singing.
- H 0832 550 SPECIAL EDUCATION TECHNIQUES IN MUSIC EDUCATION** 3 sh
Special education techniques as applied to music education, teaching music through movement and simple rhythm and non-symphonic instruments. Covers all areas of a broad-based education program as it applies to the KDG./Grade 12 populations with mild to moderate handicaps.
Prerequisite: Permission of graduate advisor.
- H 0832 578 KODÁLY SYSTEM IN MUSIC EDUCATION** 3 sh
Procedures for using Kodály materials and techniques in teaching music reading and comprehension.
- H 0832 579 PROBLEMS AND MATERIALS OF INSTRUMENTAL MUSIC** 2 sh
Evaluation of teaching experiences. Problems of organizing instrumental music in school. Literature for orchestra, band and small ensemble at various levels.
- H 0832 580 PROBLEMS AND MATERIALS OF CHORAL MUSIC** 2 sh
Survey of choral repertoire for accompanied and unaccompanied groups, for changing, unchanged and mixed voices. Evaluating materials, building programs. Class constitutes a laboratory chorus.
- H 0832 581 ORFF WORKSHOP I-CONCEPTS AND SKILLS** 3 sh
Study of basic philosophy of the Orff Schulwerk through movement, melodic and rhythmic training, improvisation and the use of relevant instruments and materials.
Prerequisite: Majors only or permission of the instructor.
- H 0832 582 ORFF WORKSHOP II-PEDAGOGY AND PRACTICES** 3 sh
Refinement of skills in the use of Orff concepts, materials and techniques. Practicum in the Orff pedagogy as applicable to American children.
Prerequisites: 0832 581 or instructor's permission.

- H 0832 583 ORFF WORKSHOP III-ADVANCED** **3 sh**
PRINCIPLES AND TECHNIQUES
 Comprehensive study of the scope of ORFF Pedagogy and mastery of techniques necessary for the development of music curricula and materials based on employing the ORFF approach.
 Prerequisites: 0832 582 or instructor's permission.
- H 0832 603 SEMINAR IN MUSIC EDUCATION** **3 sh**
 Philosophies of music education and their application to the classroom. Investigation and application of techniques of research as they apply to music education.
- H 1004 500 APPLIED MUSIC: PRIMARY INSTRUMENT I** **2 sh**
 Study of performance in the student's major area of musical expression in a manner suited to those specializing in the areas of music education or theory-composition. Fifteen one-hour lessons. Private instruction. Admission by examination only. Music fee.
- H 1004 501 APPLIED MUSIC: PRIMARY INSTRUMENT II** **2 sh**
 Study of performance in the student's major area of musical expression in a manner suited to those specializing in the areas of music education or theory-composition. Fifteen one-hour lessons, private instruction. Admission by examination only. Music fee.
- H 1004 502 APPLIED MUSIC SECONDARY INSTRUMENT I** **1 sh**
 A elementary course, for both the beginner and the student with limited background. Fifteen half-hour lessons per semester, private instruction. Admission only with the permission of graduate advisor. Music fee.
- H 1004 503 APPLIED MUSIC SECONDARY INSTRUMENT II** **1 sh**
 An elementary course, for both the beginner and the student with limited background. Fifteen half-hour lessons per semester, private instruction. Admittance only with permission of graduate advisor. Music fee.
- H 1004 504 APPLIED MUSIC III-PRIMARY INSTRUMENT** **6 sh**
 Intensive study in a major performing area for students majoring in applied music. Two recitals of professional caliber are prepared as representative of two semesters of work, or one recital per semester. At least one must be publicly performed. The other may be before a faculty jury. Admission by audition only and open only to majors in applied music. Fifteen one-hour lessons per semester. Music fee.
- H 1004 505 APPLIED MUSIC IV-PRIMARY INSTRUMENT** **6 sh**
 Intensive study in a major performing area for students majoring in applied music. Two recitals of professional caliber are prepared as representative of two semesters of work, or one recital per semester. At least one must be publicly performed, the other may be before a faculty jury. Admission by audition only and open only to majors in applied music. Fifteen one-hour lessons per semester. Music fee.

- H 1004 506 APPLIED MUSIC V-PRIMARY INSTRUMENT** 4 sh
Intensive study in the major area of performance similar to that offered under 1004 504 and 505, but spread over three semesters of work instead of two. Open only to students majoring in applied music, by audition only. Fifteen one-hour lessons per semester. Music fee.
- H 1004 507 APPLIED MUSIC VI-PRIMARY INSTRUMENT** 4 sh
Continuation of music 506. Music fee.
- H 1004 508 APPLIED MUSIC VII-PRIMARY INSTRUMENT** 4 sh
Continuation of Music 507. Music fee.
- H 1004 528 SURVEY-WIND INSTRUMENT MUSIC** 2 sh
For brass and woodwind players, solo, ensemble and full band materials for elementary and secondary school instrumentalists. Attention to music written for wind instruments and newly-published compositions. Class constitutes a laboratory band and ensemble groups.
- H 1004 529 CHORAL CONDUCTING** 2 sh
Problems and techniques of choral rehearsal and performance; tone production, intonation, balance and diction. Accompanied and unaccompanied choral repertoire.
Prerequisites: Undergraduate course in choral conducting or experience satisfactory to the instructor or the graduate advisor for music.
- H 1004 530 ADVANCED CONDUCTING** 3 sh
Baton techniques, clef reading, playing from score at the piano, transposition, score analysis, rehearsal techniques and problems of interpretation and accompaniment by orchestra and band, as well as choral conducting techniques.
Prerequisite: Preparation satisfactory to the instructor or the graduate advisor.
- H 1004 531 ENSEMBLE CHORUS I** 2 sh
Rehearsal and performance in conventional choral media. Admission by audition only.
- H 1004 532 ENSEMBLE CHORUS II** 2 sh
A second semester of 1004 531.
- H 1004 533 ENSEMBLE: OPERA WORKSHOP I** 2 sh
Rehearsal and performance of operatic repertoire in English or English translation. Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered. Open to pianists and singers.
- H 1004 534 ENSEMBLE: OPERA WORKSHOP II** 2 sh
A second semester of 1004 0533.
- H 1004 535 ENSEMBLE: BAND I** 2 sh
Rehearsal and performance of band and wind ensemble literature. Admission by audition only.

- H 1004 536 ENSEMBLE: BAND II** 2 sh
A second semester of 1004 0535.
- H 1004 537 ENSEMBLE: ORCHESTRA I** 2 sh
Rehearsal and performance of orchestral repertoire. Admission by audition only.
- H 1004 538 ENSEMBLE: ORCHESTRA II** 2 sh
A second semester of 1004 537.
- H 1004 539 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
GERMAN VOCAL LITERATURE
Refinements of performance, including stylistic interpretation, programming, interpretative analysis, diction, etc. Open through audition to singers and pianists.
- H 1004 540 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
ITALIAN VOCAL LITERATURE
Similar to 1004 539, but focusing on Italian repertoire. Open through audition to singers and pianists.
- H 1004 541 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
FRENCH VOCAL LITERATURE
Similar to 1004 539, but focusing on French repertoire. Open through audition to singers and pianists.
- H 1004 542 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
ENGLISH VOCAL LITERATURE
Similar to 1004 530, but focusing on English repertoire. Open through audition to singers and pianists.
- H 1004 543 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
WOODWIND LITERATURE
Coaching of small groups in solo and small ensemble literature for woodwind instruments. Stress on stylistic interpretation, tone, balance and other refinements of performance. Open through audition. Pianists may register as accompanists but must audition.
- H 1004 544 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
BRASS LITERATURE
Similar to 1004 543, but focusing on brass repertoire. Open to pianists and brass players through audition.
- H 1004 545 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
STRING LITERATURE
Similar to 1004 543, but focusing on string repertoire. Open to pianists and string players through audition.
- H 1004 546 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh**
ORGAN LITERATURE
Similar to 1004 542, but focusing on organ repertoire. Open to organists only, through audition.

H 1004 547 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh
PIANO LITERATURE

Similar to 1004 543, but focusing on piano repertoire. Open to pianists only, through audition.

H 1004 548 MASTER CLASS IN MUSICAL PERFORMANCE— 2 sh
PERCUSSION LITERATURE

Similar to 1004 543, but focusing on percussion repertoire. Open to percussionists through audition.

H 1006 549 MODERN MUSIC 3 sh
Study of musical styles of the 20th century. Historical sources, major composers and recent trends.

H 1006 550 CHAMBER MUSIC 3 sh
Survey of vocal and instrumental music composed for one to ten performers, one per part, from the renaissance through the modern era. Analysis of both compositional style and nature of chamber genres.

H 1006 552 ETHNOLOGICAL APPROACH TO MUSIC 3 sh
Non-Western music Ethnic roots and influences, theory, media and performance practices. Folk and professional idioms of the far East, near East, Africa, Europe and the Americas. Study for non-majors will emphasize musical experience and social-cultural background, while music majors will also pursue a more technical approach.

H 1006 553 JAZZ 3 sh
Jazz as an art form. Its impact on music and other contemporary arts and its sociological impact on American and world culture. Examination of specific performance techniques.
Prerequisites: instructor's permission.

H 1006 554 DEVELOPMENT OF THE OPERA I 3 sh
Operas of the Baroque and Classical eras from Monteverdi through Beethoven. Evolution of style, changing aesthetics, characterization and plot development and the cultural environment within which these developments have taken place.

H 1006 555 OPERA II 3 sh
Continuation of 1006 554, examining operatic styles and representative works of the romantic and modern eras.
Prerequisites: 1006 554 or instructor's permission.

H 1006 604 SEMINAR IN HISTORICAL RESEARCH 3 sh
Study of music bibliography, research method and critical analysis. Open to fully matriculated students majoring in music or permission of instructor or graduate advisor.

H 1006 605 SEMINAR IN HISTORICAL AND 3 sh
THEORETICAL STUDIES
Research and discussion of selected topics in the literature of music

focusing on stylistic and analytical problems.

Prerequisites: Majors only or Instructor's permission.

H 1016 501 MUSIC TYPOGRAPHY 2 sh

Preparation of music for publication through the use of the music typewriter. Includes preparation of scores, instrumental parts and vocal scores.

H 1016 509 ANALYTICAL SYSTEMS AND PROCEDURES 3 sh
IN MUSIC I

An introduction to sophisticated analytical systems with particular emphasis on Schenker analysis both as a tool for improving hearing and performance and as a worthy study of music in its own right.

Prerequisites: Music major status and satisfactory completion of department placement test.

H 1016 510 ANALYTICAL SYSTEMS AND PROCEDURES 3 sh
IN MUSIC II

A continuation of 1016 509.

Prerequisite: 1016 509.

H 1016 511 THEORETICAL AND AURAL 3 sh
SKILLS IN MUSIC I

Principles and practices of music construction. Aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music as a base, with specific techniques of pitch and rhythm approached from harmonic and contrapuntal standpoints. Primitive and simple folk idioms, modal counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental idioms, tonal counterpoint in two parts and free composition. Open to music majors only.

H 1016 512 THEORETICAL AND AURAL SKILLS IN MUSIC II 3 sh

Continuation of 1016 511. Complex non-Western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.

Prerequisites: 1016 511, courses in similar field, instructor's permission.

H 1016 513 COMPOSITION 3 sh

Writing of variations, small forms, songs and compositions for small ensembles. Analysis and workshop performance. Music majors or permission of instructor.

Prerequisite: 1016 511 or equivalent.

H 1016 515 ADVANCED COUNTERPOINT

Analysis and composition of polyphonic forms. Techniques in inventions, canons and motets based on the several compositional styles of western music.

Prerequisites: 1016 512, courses in similar field.

H 1016 516 ADVANCED INSTRUMENTATION 2 sh

Workshop course. Tutti instrumentation in orchestra and band, scoring for small ensembles. Instruments. Instrumental families and their pos-

sibilities and best uses. Direct instrumental setting of songs, hymns, etc., without the writing of a score. Elements of band military march construction and scoring. Performance of student instrumentations when possible.

Prerequisites: 1016 511, courses in similar field.

H 1016 517 THEORY OF SOUND

2 sh

Phenomena of sound as related to hearing music theory, musical instruments, reproduction of music (phonograph, etc.) and conditions under which music is heard.

H 1016 518 PRIVATE STUDY IN COMPOSITION I

3 sh

Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester. Admission by permission only. Music fee.

H 1016 519 PRIVATE STUDY IN COMPOSITION II

3 sh

Continuation of 1016 518.

H 1017 577 CLINICAL EXPERIENCE II

1 sh

Six months of clinical training as a music therapy intern in a training program approved by the national association for music therapy. All other course work leading to a B.A. or its equivalent must be completed before this training.

Independent Study In Music

- | | | |
|-------------|---|------------------|
| 1. 0832 599 | Independent Study in Music Education | 3 sh each |
| 1004 599 | Independent Study in Performance | |
| 1006 599 | Independent Study in Music History and Literature | |
| 1016 599 | Independent Study in Theory/Composition | |
| 1017 599 | Independent Study in Music Therapy | |
| 1018 599 | Independent Study in Sacred Music | |

Regularly listed courses pursued in greater depth, by arrangement with the graduate advisor for music prior to registration. May be elected more than once during the program, but only one course per semester. Written permission required.

- | | | |
|-------------|---|------------------|
| 2. 0832 600 | Independent Study in Music Education | 4 sh each |
| 1004 600 | Independent Study in Performance | |
| 1006 600 | Independent Study in Music History and Literature | |
| 1016 600 | Independent Study in Theory/Composition | |
| 1017 600 | Independent Study in Music Therapy | |
| 1018 600 | Independent Study in Sacred Music | |

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed. Written permission required. Special fee: See schedule booklet.

PHYSICAL EDUCATION

Chairperson: Dr. Joan Schleede

Graduate Advisor: Dr. Richard W. Tews

Montclair State College's graduate program in physical education provides students with the opportunity to explore areas of interest and expand their knowledge through in-depth study in an area of specialization. Students are given opportunities to identify and trace relationships between the past and present as well as assess present and future trends in physical education.

The Master of Arts degree with a major in physical education has been offered at Montclair State College since 1964. The program's high quality is evidenced by the positions of leadership many of its graduates hold in the physical education field and by high ratings by independent evaluation.

Special facilities for research in motor learning, biomechanics and exercise physiology are offered in the Human Performance Laboratory. These facilities are available for classwork and independent research by students and faculty.

The Physical Education Department is a member of the Panzer School Council and is administered by the School of Professional Studies.

ADMISSION REQUIREMENTS

A bachelor's degree with a major and a certificate in physical education from an accredited college or university is required for admittance. Any applicant's undergraduate records and Graduate Record Examination Aptitude Test Scores must indicate a high degree of probable success in the program. Every application will be reviewed by the Office of Graduate Studies and the Physical Education Department. Additional course work may be required if there are deficiencies in undergraduate preparation.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PHYSICAL EDUCATION

I. Required Courses*

0835 575	Philosophical and Sociological Foundations of Sport and Physical Education	3 sh
0835 579	Advanced Measurement and Evaluation in Physical Education	3 sh
0835 503	Research Methods in Physical Education	3 sh
0835 603	Research Project	4 sh
	(Full year course)	

*Course 579 *must* be completed before 503 and both of the above courses *must* be completed *before* 603. In special cases 579 and 503 may be taken concurrently with permission of the instructor of 503.

II. Areas of Specialization

In addition to the required courses above, students are required to complete 15 semester hours in one of the following areas of specialization.

A. Teaching and Administration of Physical Education

1. Required for both General Programs and Programs for the Disabled

*0835 557 Administration and Supervision of Physical Education3 sh

(And select one of the following)

**0835 506 Physical Education Programs for Secondary Schools3 sh
(or)

*0835 576 Physical Education Programs for Elementary Schools3 sh

*Required

2. Specialization Courses

a. General Programs

*0835 550 Literature and Trends in Physical Education3 sh

**0835 492 Selected Topics in Physical Education ...3 sh

0835 516 Comparative Physical Education3 sh

0835 556 Psychological Basis of Motor Learning and Performance3 sh

b. Programs for the Disabled

*0835 530 Individualized Programs in Physical Education for the Handicapped3 sh

0835 531 Practicum in Physical Education for the Handicapped3 sh

0835 553 Neurological Approach to Motor Learning and Performance3 sh

0835 557 Perceptual Motor Learning in Physical Education3 sh

B. Coaching and Sports Administration

*0835 508 Administration and Supervision of Athletics and Coaching3 sh

*0835 554 Orientation in Sports Medicine3 sh

*0835 552 Seminar in Current Problems in Athletics ...3 sh

0835 555 Biomechanical Analysis of Movement and Sports Skills3 sh

0835 556	Psychological Basis of Motor Learning and Performance .....	.3 sh
**0835 492	Selected Topics in Physical Education ....	.3 sh

*Required

**When topic is appropriate to specialization and with adviser's approval.

III. Free Electives

Six semester hours may be selected from the physical education offerings or from any discipline outside the field of physical education, provided courses prerequisites are satisfied.

IV. Written Comprehensive Examination

All students are required to write a comprehensive examination during the last semester of their work. The examination is given in March and October. Application cards are available in the Graduate Office and must be filed six weeks before the examination in the office of the Graduate Adviser in Physical Education.

The examination consists of three parts and covers the research area, the area of specialization and a question dealing with general aspects of physical education. Students are encouraged to keep class notes, handouts and course texts for review purposes.

Minimum: 34 semester hours

PHYSICAL EDUCATION

Course Descriptions

Z 0835 503 RESEARCH METHODS IN PHYSICAL EDUCATION **3 sh**

The theory of experimental, descriptive, historical and philosophical methods of research in physical education; bibliographical sources and references, application of measurement data, collection and analysis and formulation of a research proposal.

Prerequisite: 0835 579

Z 0835 506 PHYSICAL EDUCATION PROGRAMS FOR SECONDARY SCHOOLS **3 sh**

A study is made of current trends in activities, programming and scheduling. The implementation of laws requiring co-ed classes, safety factors, motivation and methods of evaluation are studied and examined in depth.

Z 0835 508 ADMINISTRATION AND SUPERVISION OF ATHLETICS AND COACHING **3 sh**

Underlying principles and desirable practices from the point of view of the administrator and supervisor, and of the person supervised and subjected to administrative policies. Interviewing, observation, conducting conferences and administrative considerations.

Z 0835 516 COMPARATIVE PHYSICAL EDUCATION **3 sh**

Systematic examination of sport and physical education in cross-cultural perspective where manifestations of the various forms of physical activities are viewed as being products of the ecological, demographic and sociocultural sub-systems. Theoretical, conceptual and methodological phases of comparative research will also be considered.

Z 0835 530 INDIVIDUALIZED PROGRAMS IN P.E. FOR THE HANDICAPPED **3 sh**

This course will offer a pragmatic approach to the planning and implementation in appropriate environment, of programs to meet specific needs of handicapped persons.

Z 0835 531 PRACTICUM IN PHYSICAL EDUCATION FOR THE HANDICAPPED **3 sh**

120 hours including conference time. Approval of the instructor is necessary. The student may elect to take the practicum in a nearby institution or school of the mentally retarded, emotionally disturbed, physically handicapped or sensory handicapped.

Prerequisite: 0835 530.

Z 0835 550 LITERATURE AND TRENDS IN PHYSICAL EDUCATION **3 sh**

Comprehensive survey of books, periodicals and other teaching materials in the field of Physical Education. Outstanding authors and current leaders in physical education and their basic philosophies.

Z 0835 552 SEMINAR IN CURRENT PROBLEMS IN **3 sh**
ATHLETICS (MEN AND WOMEN)

The organization, planning and administration of intramural and interscholastic sports programs for men and women. Program development, scheduling, promotion and conduct of the program and personnel selection. Other persistent problems identified by the students will be discussed as will trends in such areas as sports media, coaching and officiating.

Z 0835 553 A NEUROLOGICAL APPROACH TO **3 sh**
MOTOR LEARNING AND PERFORMANCE

The psychology of motor behavior, a neuropsychological approach, integrating neuropsychological and behavioral information as a beginning toward understanding motor behavior.

Z 0835 554 ORIENTATION IN SPORTS MEDICINE **3 sh**

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries current developments in the field new conditioning concepts and activities for both the athlete and non-athlete.

Prerequisite: Courses in Kinesiology, Physiology of exercise and prevention and care of athletic injuries.

Z 0835 555 BIOMECHANICAL ANALYSIS OF SPORTS **3 sh**
AND PHYSICAL EDUCATION MOVEMENTS

Drawing the free body diagram and calculating moments of force for a complete body motion; special related problems of body impact, equipment impact, the basic laws of mechanics and aerodynamic and fluid-dynamic problems.

Z 0835 556 THE PSYCHOLOGICAL BASES OF MOTOR **3 sh**
LEARNING AND PERFORMANCE

Psychological principles and research related to physical activity and educational program situations. Continued research and psychological evidence utilized to improve physical education methodology.

Z 0835 557 PERCEPTUAL MOTOR LEARNING IN **3 sh**
PHYSICAL EDUCATION

Current theories concerning the inter-relationships of perceptual development and sensory-motor activity implications for elementary school physical education programs.

Z 0835 575 PHILOSOPHICAL AND SOCIOLOGICAL **3 sh**
FOUNDATIONS OF SPORT AND PHYSICAL
EDUCATION

The historical development of modern physical education programs; the sociological factors affecting behavior in modern society applied to teaching and coaching situations.

Prerequisite: A course in the history and principles of physical education.

Z 0835 576 PROGRAMS IN PHYSICAL EDUCATION 3 sh
FOR THE ELEMENTARY SCHOOL

The selection of appropriate physical education activities for elementary programs based on principles of growth and development, and psychological and sociological needs. The relationship of physical education to other areas of instruction in the school curriculum, and to the secondary school program.

Prerequisite: Methods course in physical education for elementary school children.

Z 0835 577 ADMINISTRATION AND SUPERVISION IN 3 sh
PHYSICAL EDUCATION

Role of the teacher and administrator; interview, visitation, conference and other techniques in reference to student teachers, beginning teachers and experienced teachers. Supervision of both physical education and classroom teachers.

Z 0835 579 ADVANCED MEASUREMENT AND 3 sh
EVALUATION IN PHYSICAL EDUCATION

New tests and techniques for determining levels of skill, growth and development, the qualities which contribute to total physical fitness. Advanced techniques for processing data.

Z 0835 580 INDEPENDENT STUDY IN PHYSICAL 1-3 sh
EDUCATION

An experience in the pursuit of study of topics which may be outside the scope of regular curricular offerings or may be an extension of a course or courses. A student may complete a maximum of three semester hours credit in independent study.

Prerequisite: Completion and approval of independent study application form prior to registration.

Z 0835 603 RESEARCH PROJECT IN PHYSICAL 4 sh
EDUCATION

The principles upon which physical education research is based; studies, program personnel and techniques employed in research. A research project must be presented to the physical education faculty for approval.

Prerequisite: 0835 503, 579

PSYCHOLOGY

Chairperson: Dr. John Seymour

*Graduate Advisors: Dr. Walter Duryea, Dr. Katherine Ellison,
Dr. Paul Locher, Dr. Jerome Seidman, Dr. Herbert
Hauer*

There are two entirely separate master of arts degrees offered within this department. The MA in Psychology (with a track available in Industrial Psych) is described immediately below. For the MA in Educational Psychology (tracks in Human Sexuality, and Special Education), see page 176.

MASTER OF ARTS DEGREE IN PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares the student for advanced studies in many psychological fields such as developmental, experimental, learning, personality and counseling, school, and social psychology.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Psychology Test of the Graduate Record Examination.
3. The Miller Analogies Test.
4. Approval by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

- | | | |
|------|---|-------|
| I. | Required Courses..... | 16 sh |
| | X 2001 510 Methods of Research..... | 3 |
| | X 2001 520 Advanced General Psychology I..... | 3 |
| | X 2001 521 Advanced General Psychology II..... | 3 |
| | 2001 550 Quantitative and Statistical Methods | 3 |
| | 2001 600 Thesis | 4 |
| II. | Elective Courses | 12 sh |
| | To be selected with the approval of the Graduate Advisor/Program Director. | |
| III. | Free Electives | 6 sh |
| IV. | Comprehensive Examination: written examination precedes acceptance of thesis outline and an oral examination at completion of thesis. | |

- V. Department Colloquium: presentation of proposed theses and current research. Graduate students and faculty invited.

Minimum: 34 semester hours

CONCENTRATION IN INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Industrial/Organizational Psychology Program is designed to prepare persons for work in business and industry as professional specialists in the application of psychological knowledge and techniques to the functioning of individuals in organizations. The program draws from many areas of psychology especially testing, statistics, experimental design, learning, motivation, and interpersonal relations.

Admissions: See above

REQUIREMENTS FOR THE INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY CONCENTRATION

	Required Courses.....	15 sh
	2001 510 Research Methods in Psychology	3
	2001 520 Advanced General Psychology I.....	3
X	2001 550 Quantitative and Statistical Methods	3
X	2001 559 Seminar in Industrial/Organizational Psychology.....	3
	2001 578 Psychological Tests and Measurements.....	3
II.	Specialization	9 sh
X	2001 554 Psychology of Business and Industry.....	3
	2001 557 Theory and Application in Consumer Psychology	3
X	2001 558 Personnel Psychology	3
X	2001 570 Psychology of Human Performance	3
	2001 571 The Psychology of Organizational Behavior	3
III.	Thesis.....	4 sh
	2001 600 Thesis	4
	Two courses from Category IV or one course from Category II and one course from Category IV may be substituted for the Thesis.	
IV.	Electives: Psychology	Maximum of 6 sh
	2001 551 Advanced General Psychology II.....	3
	2001 552 General Social Psychology	3
X	2001 553 Urban Psychology	3
X	2001 563 Theories of Learning	3
	2001 568 Psychology of Group Dynamics.....	3
	2001 579 Seminar in Tests and Measurements	3
	2001 581 Motivation	3
	2001 582 Behavior Modification	3
	2001 593 Clinical Interviewing.....	3

- V. Electives: Other Departments6 sh
To be selected with the approval of the Graduate Advisor/Program Director from the Departments of Economics, Business, History, Mathematics, or Sociology.
Minimum: 34 semester hours with Thesis option.
 or
 36 semester hours without Thesis option.

MASTER OF ARTS DEGREE IN EDUCATIONAL
PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

- | | | |
|------|---|-------|
| I. | Required Courses..... | 15 sh |
| | 2001 510 Research Methods in Psychology | 3 |
| | X 2001 560 Advanced Educational Psychology..... | 3 |
| | X 2001 561 Developmental Psychology..... | 3 |
| | 2001 578 Psychological Tests and Measurements..... | 3 |
| | X 2001 660 Seminar in Educational Psychology..... | 3 |
| II. | Educational Foundations | 6 sh |
| | 2001 538 Ethnopsychology (also 2202 538) | 3 |
| | 2001 553 Urban Psychology | 3 |
| | 2008 579 Community Resources and Youth | 3 |
| | 2202 534 Anthropology and Education | 3 |
| | 2202 535 Ethnology..... | 3 |
| III. | Specialization | 6 sh |
| | 2001 555 Psychological Aspects of Poverty | 3 |
| | 2001 564 Psychology and Education of the
Physically and Mentally Handicapped | 3 |
| | X 2001 565 Psychology and Education of the
Socially and Emotionally Handicapped..... | 3 |
| | 2001 566 Psychology and Education of the Gifted | 3 |
| IV. | Electives | 6 sh |
| | To be selected with the approval of the Graduate Advisor/Program Director. | |

V.	Comprehensive Examination	
VI.	Thesis (Elective)	4
		Minimum: 33 semester hours

CONCENTRATION IN HUMAN SEXUALITY

Graduate Advisor: Dr. Katherine Ellison

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE CONCENTRATION IN HUMAN SEXUALITY

I.	Required Courses	12 sh
	2001 510 Research Methods in Psychology	3
	2001 560 Advanced Educational Psychology	3
	2001 561 Developmental Psychology	3
	2001 660 Seminar in Educational Psychology	3
II.	Foundations	6 sh
	2001 446 Today's Woman	3
	2202 535 Ethnology I	3
	2001 538 Ethnopsychology	3
	2001 552 General Social Psychology	3
	2001 553 Urban Psychology	3
	2208 579 Community Resources and Youth	3
III.	Specialization	15 sh
	At least 6 semester hours chosen from the following:	
	2001 542 Workshop in Psychology—Human Sexuality	3
	2001 548 Sex Education in Communities and Agencies	3
	2001 641 Perspectives in Human Sexuality	3
	2001 645 Sexual Function and Dysfunction	3
	and 9 additional semester hours chosen from the above and/or	
	✕ 2001 567 Abnormal Psychology	3
	2001 568 Psychology of Group Dynamics	3
	✕ 2001 580 Personality	3
	2001 593 Clinical Interviewing	3
IV.	Electives	3 sh
	0401 540 Comparative Human Anatomy	4
	2001 573 Physiological Psychology	3
	✕ 2001 578 Psychological Tests & Measurements	3
	2208 559 Sociology of Deviance	3
	2208 563 Self & Society	3
	2208 573 The Family as an Institution	3
V.	Comprehensive Examination	
		Minimum: 36 semester hours

INTERRELATED GRADUATE PROGRAM IN SPECIAL EDUCATION AND SPECIAL PUPIL SERVICES: TEACHER OF THE BEHAVIORALLY DISTURBED

Graduate Advisor: Dr. Walter R. Duryea

The course of study in the College's interdepartmental programs in special education prepares students to teach socially and emotionally maladjusted children. This concentration leads to New Jersey Certification in Teacher of the Handicapped.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology or equivalent.
2. The Advanced Psychology Test of the Graduate Record Examination is required of applicants who have an undergraduate psychology major.
3. The Miller Analogies Test.
4. Interview with and approval by the departmental committee.
5. Teaching certification is not required but is desirable.

Note: Minimum residency of one year and one summer is required.

REQUIREMENTS FOR THE PROGRAM IN SPECIAL EDUCATION

- I. Required Courses.....12 sh
2001 578 Psychological Tests and Measurements.....3
Two of the following:
0808 500 Nature of Reading3
0808 511 Case Studies in Reading Difficulties3
and either:
2001 560 Advanced Educational Psychology or.....3
2001 563 Theories of Learning3
Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.
- II. Core Courses8 sh
Required:
2001 561 Developmental Psychology.....3
2001 565 Psychology and Education of Socially
and Emotionally Handicapped Children.....3
2001 620 Orientation and Observation in Special Education....2
1220

Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.

III. Specialized Requirements.....	23 sh
2001 540 Teaching and Remediation Techniques	3
2001 541 Adaptive Curriculum and Program Planning	3

School Psychologist Certification (N. J. State Certificate)

Graduate Advisor: Dr. Herbert Hauer

The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical, and community experiences. In addition, if all appropriate requirements are met, the student in this certification program will receive either an MA in Psychology or an MA in Educational Psychology. See the latest information.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Graduate Record Examination in Psychology or Education.
3. The Miller Analogies Test.
4. Two additional letters of recommendation.
5. Approval by the departmental committee.

Final application date December 31.

REQUIREMENTS FOR THE SCHOOL PSYCHOLOGIST CERTIFICATION PROGRAM

I. Educational Foundations (Select 4 courses)	12 sh
0821 521 Contemporary Educational Thought.....	3
2001 538 Ethnopsychology	3
2001 553 Urban Psychology	3
2001 555 Psychological Aspects of Poverty	3
2001 560 Advanced Educational Psychology.....	3
2001 660 Seminar in Educational Psychology.....	3
2002 535 Ethnology I.....	3
2208 565 Sociology of Youth	3
II. Education of the Handicapped.....	6 sh
2001 564 Psychology and Education of the Physically and Mentally Handicapped.....	3
2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3

III.	Testing and Clinical Techniques	24 sh
	2001 510 Research Methods in Psychology	3
	*2001 550 Quantitative and Statistical Methods.....	3
	*2001 574 Individual Intelligence Testing.....	3
	*2001 575 Projective Techniques I.....	3
	*2001 576 Projective Techniques II.....	3
	*2001 578 Psychological Tests and Measurements.....	3
	2001 590 Diagnostic Case Studies	3
	*2001 593 Clinical Interviewing	3
	2001 661 Practicum in School Psychology	3
	*2001 662 School Psychologist Externship.....	3
IV.	Personality and Behavioral Development.....	12 sh
	2001 561 Developmental Psychology	3
	2001 563 Theories of Learning	3
	2001 567 Abnormal Psychology	3
	2001 573 Physiological Psychology	3
	2001 580 Personality	3
	2001 582 Behavior Modification	3
V.	Electives: Select courses to balance the program, with permission of graduate advisor.....	Minimum: 60 semester hours.

*Required for certification. See Director of Program for externship arrangements.

PSYCHOLOGY

Course Descriptions

7 2001 503 LANGUAGE & COMMUNICATION 3 sh

Influence of psychology, linguistics and biology on the learning and use of language. Psycholinguistics, language and thought, language disorders, development of communication, dialect differences.

7 2001 510 RESEARCH METHODS IN PSYCHOLOGY 3 sh

Non-laboratory introduction to correlational and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the educational and general psychology programs. Prerequisite: A graduate course in psychology.

7 2001 520 ADVANCED PSYCHOLOGY I 3 sh

Learning and motivation (first half term), personality and abnormal psychology (second half term). Open to matriculated candidates in general psychology program only. Must be taken during the first year of the program.

7 2001 521 ADVANCED GENERAL PSYCHOLOGY II 3 sh

Sensation and perception (first half term), social psychology (second half term). Open to matriculated candidates in general psychology program only.

Prerequisite: 2001 0520

7 2001 538 ETHNOPSYCHOLOGY**3 sh**

Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture cultural influences on cognition personality under stress cultural psychiatry and creativity in culture. Interdisciplinary field work. Prerequisite: Previous course work in anthropology, psychology, or permission of the instructor.

7 2001 540 TEACHING AND REMEDIATION TECHNIQUES WITH BEHAVIORALLY DISTURBED CHILDREN**3 sh**

Teaching and remediation of basic skills with behaviorally disturbed students methods and materials in reading, mathematics, and language arts.

Prerequisite: Instructor's permission.

7 2001 541 ADAPTIVE CURRICULUM AND PROGRAM PLANNING FOR BEHAVIORALLY DISTURBED CHILDREN**3 sh**

Modifying the school curriculum, program planning, and behavioral management options for the behaviorally disturbed students.

Prerequisite: Instructor's permission.

7 2001 542 WORKSHOP IN PSYCHOLOGY—HUMAN SEXUALITY**3 sh**

Psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists lecture and participate in group discussions: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and sex role, sex and the self-concept.

7 2001 545 SEMINAR IN BEHAVIORAL DISTURBANCES OF CHILDREN I**3 sh**

Survey and analysis of educational strategies and models for behaviorally disturbed students, E.G. psycho-educational, behavioral, psychodynamics. Day to day student-teacher adjustments and behavior management. Integrated with concurrent practicum. Open only to matriculated students.

Prerequisite: Instructor's permission.

7 2001 546 SEMINAR IN BEHAVIORAL DISTURBANCES OF CHILDREN II**3 sh**

Select issues, research and theory in education and related services to behaviorally disturbed students E.G. involving and working with family therapeutic techniques and processes related to student personality and behavior disorders, technology—innovation and accountability.

Prerequisites: 2001 545, 665, Instructor's permission.

7 2001 547 WOMAN: A CROSS-CULTURAL PERSPECTIVE**3 sh**

The physiological and psychological aspects of women studied cross-culturally and their implications for today's society will be the focus of this course. Morphological and psychological developments from conception to death in various cultures; inferences about the roles of women in our society will be made.

7 2001 548 SEX EDUCATION IN COMMUNITIES AND AGENCIES 3 sh

Techniques for working with communities and agencies in setting up courses and offering materials for community programs in sex education.

7 2001 549 PSYCHOLOGY OF THE ADULT LEARNER 3 sh

Methods & materials of learning which can be adapted to adult education. Emphasis on identifying educational needs, understanding problems of the adult learner, overcoming learning difficulties motivation, and other factors affecting learning and counseling procedures.

7 2001 550 QUANTITATIVE AND STATISTICAL METHODS 3 sh

Principles and techniques of data analysis and experimental design in psychology, estimation of parameters, and hypothesis testing. Open only to matriculated students.

Prerequisite: Permission of instructor and a qualifying examination in basic statistics.

7 2001 551 ADVANCED EXPERIMENTAL PSYCHOLOGY 3 sh

Laboratory course on contemporary research issues in psychology. An original research project will be required. Recommended for students intending to enter doctoral programs.

Prerequisite: 2001 550, 215 or equivalent.

7 2001 552 GENERAL SOCIAL PSYCHOLOGY 3 sh

Theory, methodology and research findings. Biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

Prerequisite: One course in psychology.

7 2001 553 URBAN PSYCHOLOGY 3 sh

Theoretical and empirical literature on cities and those who live in and near them. Interaction of individual psychological factors and urban structures. Problems and issues related to crowding and density, poverty, housing, urban planning, neighborhoods, race relations.

Prerequisite: One course in psychology.

7 2001 554 PSYCHOLOGY OF BUSINESS & INDUSTRY 3 sh

Application of psychological findings to problems encountered in business and the professions.

7 2001 555 PSYCHOLOGICAL ASPECTS—POVERTY 3 sh

Relationships between individual and group psychological factors and poverty as a major domestic issue. Critical approaches to psychological theories of poverty.

Prerequisite: 2001 553.

7 2001 556 ENVIRONMENTAL PSYCHOLOGY 3 sh

Interaction of the physical environment with human behavior. Population density and crowding; environmental perception, historic environmental attitudes; architecture and behavior; unusual environments; man and the natural world.

7 2001 557 THEORY AND APPLICATION IN CONSUMER PSYCHOLOGY 3 sh

The theory and assessment of consumer behaviors utilizing fundamental psychological principles will be emphasized. A field research project will be undertaken.

Prerequisite: 1701 109.

7 2001 558 PERSONNEL PSYCHOLOGY 3 sh

This course focuses on the application of psychological methods and knowledge to the personnel functions of industry. Emphasis is on major relevant social, economic and legislative changes affecting employment including civil rights, the women's movement, fairness in employment testing.

7 2001 559 SEMINAR IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3 sh

This course covers the most recent advances, issues and problems in the field through the use of technical literature, legislation, judicial decisions, research techniques and consulting practice to provide the student with knowledge, techniques and skills for application. Each student presents a technical article, participates in a debate and reviews a topic in a term paper.

Prerequisite: 2001 554, 555, 557.

7 2001 560 ADVANCED EDUCATIONAL PSYCHOLOGY 3 sh

Focus on the learner and the learning process in school situations. Motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.

Prerequisite: Courses in similar field.

7 2001 561 DEVELOPMENTAL PSYCHOLOGY 3 sh

Theoretical issues and research findings on mental processes from pre-natal life through adolescence.

Prerequisite: Courses in similar field.

7 2001 562 DYNAMICS OF HUMAN BEHAVIOR 3 sh

Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.

7 2001 563 THEORIES OF LEARNING 3 sh

Review of current learning theory and research and the implications for education. Open only to matriculated students.

Prerequisite: Two courses in psychology or permission of graduate advisor.

7 2001 564 PSYCHOLOGY AND EDUCATION OF PHYSICALLY AND MENTALLY HANDICAPPED CHILDREN 3 sh

Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and administrators who work with such children or who wish to prepare for school and community leadership in developing facilities.

Prerequisite: 2001 561

- 7 2001 565 PSYCHOLOGY AND EDUCATION OF SOCIALLY AND EMOTIONALLY HANDICAPPED CHILDREN** 3 sh
Practice and problems in education of socially and emotionally handicapped children.
Prerequisite: 2001 561
- 7 2001 566 PSYCHOLOGY AND EDUCATION OF THE GIFTED** 3 sh
Picture of bright and gifted young people in contemporary American life. Various practices involved in education, as well as the psychological characteristics of this group and socio-emotional development.
Prerequisite: 2001 561 or Instructor's permission.
- 7 2001 567 ABNORMAL PSYCHOLOGY** 3 sh
Models and selected research in psychopathology, physical illness, psychosomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.
Prerequisite: 2001 580.
- 7 2001 568 PSYCHOLOGY OF GROUP DYNAMICS** 3 sh
Theories of group dynamics and illustrative application to industrial, marital, political, interracial and professional life; personal participation by the student in a group interactive process. Open only to matriculated students.
- 7 2001 570 THE PSYCHOLOGY OF HUMAN PERFORMANCE** 3 sh
Application of psychological techniques to the problems encountered at the interface between human beings and modern technology. Workplace design, computer systems, transportation systems, man in space, control and display design.
- 7 2001 571 ORGANIZATIONAL PSYCHOLOGY** 3 sh
This course closely examines the psychological aspects of organizational functioning. Areas to be covered include motivation, job satisfaction, leadership, organizational development, and organizational change. All areas will be dealt with from both a theoretical and a practical point of view.
- 7 2001 573 PHYSIOLOGICAL PSYCHOLOGY** 3 sh
Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuroendocrine integrating relationships in the more complex behaviors. Open only to matriculated students.
Prerequisite: One course in experimental psychology, one in biology and permission of instructor.
- 7 2001 574 INDIVIDUAL INTELLIGENCE TESTING** 3 sh
Administration, scoring and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet scale, the Wechsler

Intelligence scale for children, and the Wechsler Adult Intelligence scale.

Prerequisite: Approved certification candidacy in the school psychology program.

7 2001 575 PROJECTIVE TECHNIQUES I **3 sh**

Basic instruments of projective testing, particularly the Rorschach test from the standpoints of basic research and the mechanics of administration and scoring.

Prerequisite: Approved certification candidacy in the school psychology program.

7 2001 576 PROJECTIVE TECHNIQUES II **3 sh**

Moves from the theoretical to the practical application of projective tests. Student required to administer, score and analyze individual cases. Major emphasis on the Rorschach and Thematic Apperception test.

Prerequisite: 2001 575

7 2001 578 PSYCHOLOGICAL TESTS & MEASUREMENTS **3 sh**

Survey of theory, construction and application of psychological tests. Open only to matriculated students.

Prerequisites: 0824 503, 2001 510, 550.

7 2001 580 PERSONALITY **3 sh**

Major theories and clinical and experimental findings. Open only to matriculated psychology majors.

Prerequisite: 2001 520, 561; Instructor's permission.

7 2001 581 MOTIVATION **3 sh**

Nature and development of motives and their role in behavior. Open only to matriculated psychology majors.

Prerequisite: 2001 520

7 2001 582 BEHAVIOR MODIFICATION **3 sh**

Experimental findings, design of experiments, and practice in the application of learning principles to changing behavior. Student will perform some experiments.

Prerequisite: 2001 563.

7 2001 583 SENSATION & PERCEPTION **3 sh**

Sensory and perceptual processes. Includes visual, auditory and other stimuli, psychophysics and the development of perceptual abilities and the effects of learning motivation and set on perceptual processes. Open only to matriculated psychology majors.

Prerequisite: 2001 521.

7 2001 584 COMPARATIVE PSYCHOLOGY **3 sh**

Behavior of animals under experimental conditions and in their natural environment. Behavior comparisons from lower forms to man.

Prerequisite: Instructor's permission.

7 2001 585 PSYCHOANALYTIC THEORY**3 sh**

A developmental analysis of the original Freudian concepts, and their use in psychoanalysis. The course will also include later evolutionary developments by noted analysts, including such theorists as Horney, Sulliván, Reik, Adler, Jung, Kris, and others.

Prerequisite: 2001 567, 580; Instructor's permission.

7 2001 590 DIAGNOSTIC CASE STUDIES I**3 sh**

Learning to use diagnostic material and to write up diagnostic findings. The unique value of various diagnostic tools and the criteria for selection in relation to present school problems.

Prerequisite: Approved candidacy in the school psychology certification program. 2001 574, 575.

7 2001 591 DIAGNOSTIC CASE STUDIES II**3 sh**

Course continues along the procedures described in 2001 590. In addition, the students are required to present reports on their diagnostic findings of individual cases.

Prerequisite: 2001 590.

7 2001 592 SPECIAL DIAGNOSTIC TECHNIQUES**3 sh**

Designed for students who are already competent in basic individual testing techniques. Specialized tests and techniques: Evaluation of handicapped children.

Prerequisite: 2001 574, 575; Instructor's permission.

7 2001 593 CLINICAL INTERVIEWING**3 sh**

Clinical interviewing under rigid supervision as an essential part of a practicum experience. Diagnostic features of interviewing and interpersonal relationships between the psychologist and the client.

Prerequisite: Permission of the graduate advisor and instructor.

7 2001 600 THESIS I**4 sh**

Individual research under faculty direction. Student presents thesis proposal at a department colloquium and takes an oral examination upon completion of the thesis.

Prerequisite: Permission of thesis advisor.

**7 2001 620 ORIENTATION AND OBSERVATION IN
SPECIAL EDUCATION****3 sh**

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers and special guest lectures.

Prerequisite: Permission of instuctor.

7 2001 641 PERSPECTIVE IN HUMAN SEXUALITY**3 sh**

Specialists lecture and discuss concepts of human sexuality, abortion, human sexuality and the mentally retarded child, world population myths and fallacies of human sexuality, the community and sex education, sexual aberrations, touch and human sexual response, male and

female sexual response, sexual problems of college students, the humanization of obstetrics, current research in sex and sex education. Prerequisite: Two graduate courses in human sexuality.

7 2001 645 SEXUAL FUNCTION & DYSFUNCTION 3 sh

Seminar in current trends and practices in sexual therapy. Historical material and research studies in the area of sexual function and dysfunction—from Freud to Masters and Johnson.

Prerequisite: 2001 542, 641, 567.

7 2001 660 SEMINAR IN EDUCATIONAL PSYCHOLOGY 3 sh

Opportunity to investigate and apply the techniques of research in the psychology field.

Prerequisites: 2001 510, 560 and matriculation in psychology.

7 2001 661 PRACTICUM IN SCHOOL PSYCHOLOGY 3 sh

Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.

Prerequisite: Approved certification candidacy in school psychology program and permission of graduate advisor.

7 2001 662 SCHOOL PSYCHOLOGY EXTERNSHIP 3 sh

Students serve as apprentice psychologists in cooperating school districts or agencies. A fully certified school psychologist, employed in the cooperating district, or an appropriate clinician and the college supervisor make periodic visits and conduct a series of seminars to be scheduled on campus.

Prerequisites: Approved certification candidacy in school psychology program and permission of graduate advisor.

7 2001 663 INDEPENDENT STUDY 1-3 sh

Under faculty supervision the student works independently in (1) readings, (2) field experiences, or (3) research outside of thesis. Student selects one area per semester for 1, 2, or 3 sh maximum 3 sh.

Prerequisite: Permission from graduate advisor and instructor prior to registration. Open only to matriculated psychology majors.

7 2001 664 PRACTICUM IN TEACHING BEHAVIORALLY DISTURBED CHILDREN I 3 sh

Experience in teaching seriously and moderately emotionally disturbed children. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.

Prerequisite: Permission of the program coordinator.

7 2001 665 PRACTICUM IN TEACHING BEHAVIORALLY DISTURBED CHILDREN II 3 sh

Continues the experience described in 2001 664. Open only to matriculated majors in the program for the teaching of emotionally disturbed children who have the program coordinator's approval.

7 2001 670 INTRODUCTION TO PSYCHOTHERAPY **3 sh**
 Theories, research and practices in individual and group psychotherapy;
 introduction to approaches to treatment of emotional maladjustment and
 behavioral pathology.
 Prerequisites: Permission of instructor.

7 2001 672 PRACTICUM IN PSYCHOTHERAPY **3 sh**
 Supervised practice in individual and group counseling and
 psychotherapy; personal growth through self-understanding.
 Prerequisite: 2001 670 and Instructor's permission.

The following Senior Graduate courses may be elected with permission
 of the graduate advisor. Course descriptions may be found in the current
 regular bulletin.

2001 442 Curriculum and Methods in Sex Education3
 2001 446 Today's Woman3

RECREATION

Although there is no degree or certification program associated with this
 department, the following graduate courses may be selected by students
 in other programs who have their advisor's prior approval.

RECREATION

Course Descriptions

Z 0849 532 THERAPEUTIC RECREATION **3 sh**
 The development, supervision and coordination of therapeutic recrea-
 tion programs in various types of institutional and community settings.
 Prerequisite: 1220 581 or 586.

Z 0849 551 PHILOSOPHY, TRENDS AND CURRENT **3 sh**
PRACTICES IN RECREATION AND LEISURE
SERVICES

Presents a survey of the development of recreational philosophies and a
 study and evaluation of the modern philosophy in America. The organiza-
 tion of recreation in school and community, the importance of leadership,
 social and cultural implications, economic, governmental, and leisure
 time influences, and a study of current practices will be undertaken.

Z 0849 563 URBAN PARK AND RECREATION **3 sh**
MANAGEMENT

Administration and policies of park and recreation agencies, including
 organizational structure, boards and commissions, executive leadership
 decision making, personnel finance, public relations, office manage-
 ment, legal provisions, operational research etc. Management proce-
 dures for metropolitan and regional parks including specialized facilities
 e.g. golf courses, pools, ice rinks, etc.

SOCIAL SCIENCES

MASTER OF ARTS DEGREE REQUIREMENTS

The Master of Arts program in Social Sciences is designed to accomplish four main objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social sciences and history.
2. To acquaint the student with the interrelatedness of these various fields as well as their relationship to other disciplines.
3. To familiarize students with the particular methodologies and specialized problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, the program offers advanced study in anthropology, economics, geography, history, non-western cultures, political science, sociology and urban studies. Degree candidates do a major portion of their work and prepare for a final comprehensive examination in one of these concentrations. The program also provides flexibility for interdisciplinary study in certain areas and is designed mainly for students who wish to work toward the degree on a part-time basis.

While teachers seeking to keep up-to-date in their fields or preparing for specialized secondary school subjects still constitute an important segment of the graduate student body, degrees in the social sciences and history are increasingly being pursued by (a) individuals seeking to change fields or professions, (b) individuals planning career advancement, and (c) individuals returning to the academic world after a hiatus of some time. A significant number of graduates of the program have pursued doctoral work successfully at major universities. The program's flexibility has also been utilized to enhance careers in business, government, politics, community service agencies, museum work, urban planning, etc. Student constituencies are able to achieve their respective purposes by following one of the tracks or specializations within the program.

Recognition of changing demands acts as a spur to further developments in the program. Thus some revision in the structure of the program's concentrations is currently being planned, and applied tracks in anthropology and sociology have been projected. Interested candidates should contact the chair of the appropriate department for information.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission to the graduate program at Montclair State, candidates must present an undergraduate record showing a total of at least 30 semester hours in the social sciences and/or history. For candidates with weak undergraduate preparation in

the field of concentration, prerequisite courses, not for graduate credit, may be required. For applicants holding the baccalaureate degree from Montclair State, the Graduate Record Examination aptitude test may be waived by permission of the departmental graduate advisor.

ANTHROPOLOGY CONCENTRATION

Graduate Advisor: Dr. Bertha Quintana

- I. Required Course3 sh
 - *2202 535 Ethnology3

*Anthropology elective may be substituted for candidates with proper equivalent courses experience.
- II. Anthropology Electives12-15 sh
 - 2202 530 Anthropology of Institutional Life.....3
 - 2202 532 Anthropology of Cities.....3
 - 2202 533 Spanish Cultural Influences in the U.S.....3
 - 2202 534 Transmission of Culture3
 - 2202 536 Cultural Diversity3
 - 2202 537 Responding to Cultural Change3
 - 2202 538 Ethnopsychology3
 - 2202 539 Prehistoric North America.....3
 - 2202 540 Social Anthropology and History.....3
 - 2202 541 Cognitive Anthropology.....3
 - 2202 547 Women: A Cross-Cultural Perspective.....3
 - 2202 601 Independent Anthropological Research.....3
- III. Related Social/Behavioral Science and/or
 - History Electives (Outside concentration area)6-9 sh
- IV. Free Electives6 sh
- V. Reading Seminar and Comprehensive Examination.....2 sh
 - 2202 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600, Thesis (4 sh) in lieu of the comprehensive examination.

Minimum: 32 semester hours

Modified Concentration

(Recommended for students with undergraduate majors or minors in anthropology, or equivalent interdisciplinary backgrounds.)

With the approval of the graduate advisor, qualified students may develop modified concentrations in applied anthropology, cross-cultural studies, or ethnopsychology. Independent Anthropological Research (2202 601) and Reading Seminar and Comprehensive Examination (2202 603) are required courses for students in this category, together with courses appropriate to student needs and interests.

ANTHROPOLOGY

Course Descriptions

1 2202 530 ANTHROPOLOGY OF INSTITUTIONAL LIFE 3 sh

An analysis of the relationship between culture, society, personality and institutional life. Emphasis is placed on the relationship between formal organizations and public interests.

1 2202 532 ANTHROPOLOGY OF CITIES 3 sh

A cross-cultural investigation of urbanism and urbanization. Utilizing anthropological monographs, the comparative method will be employed to discover recurrent patterns of adaptation to urban environments. An urban, ethnographic field work research project is required.

1 2202 533 SPANISH CULTURAL INFLUENCES IN THE U.S. 3 sh

The cultural heritage of Spanish-speaking America. Utilizing anthropological concepts, problems of adjustment and educational implications are emphasized.

1 2202 534 THE TRANSMISSION OF CULTURE 3 sh

Focuses on formal and informal processes of cultural transmission and renewal. Emphasis is placed on the relationship of individuals to their cultures, and problems of generational continuity and cultural revitalization. Anthropological strategies for educational research are explored. Prerequisites: 6 sh in graduate anthropology courses, or by permission of instructor.

1 2202 535 ETHNOLOGY 3 sh

"Science of peoples, their cultures and life histories as groups." Ethnographic and ethnological methodology and theory. Primarily for graduate students with limited or no previous course work in cultural anthropology.

1 2202 536 CULTURAL DIVERSITY 3 sh

Descriptive, historical and theoretical anthropological works provide the basis for studying likenesses and differences among folk and urban cultures, their historical development, and interrelationships between differing aspects of culture.

1 2202 537 RESPONDING TO CULTURE CHANGE 3 sh

Emphasis on the dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and/or stimulate culture change are considered in transcultural perspective. A unit of study is devoted to the psycho-cultural consequences of rapid change.

Prerequisite: 2202 535 or equivalent.

1 2202 538 ETHNOPSYCHOLOGY**3 sh**

Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition, personality under stress, cultural psychiatry, and creativity in culture. Interdisciplinary field work. Prerequisite: Previous course work in anthropology, psychology, or permission of the instructor.

1 2202 539 PREHISTORIC NORTH AMERICA**3 sh**

General background in native American archaeology, and theory and method in this subdiscipline. Selected culture areas and problems relating to time depth, cultural interaction, and the nature of archaeological evidence north of Mexico.

1 2202 540 SOCIAL ANTHROPOLOGY & HISTORY**3 sh**

The relationship of social anthropology to history. The study of history as a cultural system, sources and methods utilized in reconstructing the histories of preliterate societies, and the inarticulate sectors in complex societies.

1 2202 541 COGNITIVE ANTHROPOLOGY**3 sh**

How different peoples organize and use their cultures. Data from formal ethnography, semantic analysis, ethnoscience and componential analysis for purposes of studying culture and building culture theories. Prerequisite: Previous course work in ethnology, ethnopsychology or linguistics.

1 2202 547 WOMAN: A CROSS-CULTURAL PERSPECTIVE**3 sh**

Physiological and psychological aspects of women studied cross-culturally, and their implications for contemporary society. Morphological and psychological developments from conception to death in various cultures, inferences about the roles of women in American society. An inter-disciplinary course.

1 2202 601 INDEPENDENT ANTHROPOLOGICAL RESEARCH**3 sh**

Under faculty guidance, the student works independently throughout the academic year on a delimited problem in anthropology. Course includes presentation of proposal, execution and write-up of research, and oral defense of findings.

Prerequisite: Permission of the graduate advisor and instructor.

1 2202 603 READING SEMINAR IN ANTHROPOLOGY**2 sh**

Required of all M.A. candidates concentrating in Anthropology. Directed independent study in preparation for 3 hour comprehensive examination.

A maximum of 9 hrs. of senior-graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

- 2202 406 Anthropology of Aging and the Aged
- 2202 411 Archaeological Field Methods
- 2202 412 Cultural Ecology
- 2202 413 Medical Anthropology
- 2202 420 Apprenticeship in Anthropology

ECONOMICS CONCENTRATION

Graduate Advisor: Dr. Suresh DeSal

The purpose of the concentration in economics is to assist students (mostly employees in the private, public and non-profit sectors) to acquire competency in the economic analysis of specialized fields without undue emphasis on theory and quantitative methodology, thereby enabling them to participate more effectively in the formulation, evaluation, and implementation of public policies. The current program is under revision and candidates interested in economics as an area of concentration should contact the chairman of the department for information.

- I. Required for all but undergraduate Economics majors:
 - 2204 501 Economics Analysis3
- II. Economics Electives9-12 sh
 - 2204 502 Financial Institutions and Monetary Policy3
 - 2204 503 Economic Problems of the Third World.....3
 - 2204 508 Economics of Public Management3
 - 2204 510 Urban Economics: Problems and Policies.....3
 - 2204 533 Corporate and International Financial Markets3
 - 2204 540 Development in Economic Education.....3
 - 2204 541 Foundations of Contemporary Economic Thought.....3
 - 2204 542 Economic Fluctuations and Forecasting.....3
 - 2204 543 United States in the World Economy3
 - 2204 544 Government and Business.....3
 - 2204 545 Economics of Labor3
- III. Related Social/Behavioral Science and/or History6-9 sh
- IV. Free Electives6 sh
- V. Reading Seminar and Comprehensive Examinations2 sh
 - 2204 603 Independent study in preparation written examination given in March and October.

Minimum: 32 semester hours

ECONOMICS

Course Descriptions

3 2204 501 ECONOMIC ANALYSIS 3 sh
The resource allocation and income distribution implications of households and firms under varying degrees of competition. Not open to undergraduate economic majors.

3 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3 sh

This course analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems both theoretical and applied in the area of monetary policy.

Prerequisite: 2204 501 or equivalent.

3 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3 sh

A survey of major economic problems of the third world. Examination of the economic structure of developing countries and of general theories of economic development. Critical evaluation of various policy alternatives for their development. Analysis of possible economic relationships between first and second worlds with the third world.

Prerequisite: An undergraduate course in economics or permission of instructor.

3 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3 sh

Application of capital theory in the decision-making processes of government; Alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: 2204 501 or equivalent.

3 2204 510 URBAN ECONOMICS: PROBLEMS AND POLICY 3 sh

The location of economic activities. The growth of cities and the origins of some urban problems in a market economy. Limited emphasis on the problems of location and congestion due to agglomeration in non-market economics.

Prerequisite: 2204 501 or instructor's permission.

3 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3 sh

The course will discuss the economic theories and problems which confront business institutions when dealing in international financial markets. It will analyze the various market instruments and how a corporation may use them.

Prerequisite: 2204 501, 543.

3 2204 540 DEVELOPMENT IN ECONOMIC EDUCATION 3 sh

Insights into recent experiments incorporating economic education into the curriculum, K-12; restructuring of curriculum to promote economic understanding. Materials written and audio-visual, designed for economic education. Guest lectures supplement the experience of the

course instructor.
Prerequisite: 2204 501 or equivalent.

3 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3 sh

Antecedents of current economic theory; economics as a cumulative science; the works of the creative economists; the uses and limitations of economic theory.
Prerequisite: 2204 501 or equivalent.

3 2204 542 ECONOMIC FLUCTUATIONS AND FORECASTING 3 sh

Theories to account for variations in business activity. Macroeconomic forecasting approaches; economic fluctuations in the United States; proposals for reducing fluctuations. Harrod Domar model; Modern Theory of Growth.

3 2204 543 UNITED STATES AND THE WORLD ECONOMY 3 sh

Principles of international finance, monetary relations and trade; contemporary international monetary and trade problems and policies; the economic aspects of current American foreign policy.
Prerequisite: 2204 501 or equivalent.

3 2204 544 GOVERNMENT AND BUSINESS 3 sh

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control; the importance of economic analysis; the foundation of public policies.
Prerequisite: 2204 501 or equivalent.

3 2204 545 ECONOMICS OF LABOR 3 sh

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors, market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.
Prerequisite: 2204 501 or equivalent.

3 2204 603 READING SEMINAR IN ECONOMICS 2 sh

Required of all masters degree candidates concentrating in economics, this seminar entails directed independent study in preparation for a 3-hour written comprehensive examination.

The following Senior-Graduate courses are suggested. Course descriptions may be found in the current undergraduate bulletin.

3 2204 403	Comparative Economic Systems.....	3
3 2204 405	Collective Bargaining in the Public Sector	3
3 2204 415	Economics of Social Problems.....	3
3 2204 438	Advanced Seminar in Economics	3

GEOGRAPHY CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

It is highly recommended that candidates for the concentration in geography have an undergraduate major or minor in geography or its equivalent from an accredited college or university. Candidates without this background may be required to make up deficiencies in their undergraduate programs.

I.	Required Courses.....	6 sh
	2206 520 Landscapes in Transition	3
	2206 521 Research Methods	3
II.	Geography Electives	9-12 sh
	2206 501 Air Resource Management	3
	2206 502 Problems in Economic Geography	3
	2206 503 Culture Regions.....	3
	2206 504 Pro-Seminar	3
	2206 505 Human Environment	3
	2206 509 Water Resource Management	3
	2206 510 Urban Systems Analysis	3
	2206 511 Urban and Regional Planning.....	3
	2206 550 Urban Studies and Policy Analysis	3
	2206 551 The Metropolitan Economy	3
	2206 603 Reading Seminar in Geography and Urban Studies...	2
	2206 610 Urban Studies Seminar.....	3

Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested or acceptable courses are as follows:

	2206 0413 Geography of the Middle East.....	3
	2206 0452 Geohydrology	3
	2206 0409 Urbanization in World Perspective	3
	2206 0423 Culture and Resource Utilization.....	3
III.	Related Social/Behavioral Science and/or History Electives.....	6-9 sh
IV.	Free Electives (outside the area of concentration) 6 semester hours	
V.	Reading Seminar and Comprehensive Examination.....	2 sh
	2206 603 Independent study in preparation for written examination given in March and October. Candidates may register for Departmental thesis (600) 4 sh in lieu of comprehensive examination.	

Minimum: 32 semester hours

URBAN STUDIES CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

- I. Required Courses.....9 sh
 - 2206 550 Urban Studies and Policy Analysis3
 - 2206 551 The Metropolitan Economy3
 - *2206 610 Urban Studies Seminar3

*To be taken only after the candidate has completed 2206 550, 551 and 9 semester hours of Urban Studies electives.
- II. Urban Studies Electives.....9 sh
 - 2206 504 Pro Seminar3
 - 2206 510 Urban Systems Analysis3
 - 2206 511 Urban and Regional Planning.....3
 - *2206 521 Research Methods.....3
 - 2202 0532 Anthropology of Cities.....3
 - 2204 0508 Economics of Public Management.....3
 - 2204 0510 Urban Economics: Problems and Policies.....3
 - 2205 0518 Urban History: National Trends in North Jersey Cities3
 - 2207 0501 Public Administration and Public Policy.....3
 - 2001 0553 Urban Psychology3
 - 2201 0555 Psychological Aspects of Poverty3
 - 2208 0566 The Metropolitan Community3
 - 2208 0567 Power and Social Stratification3
 - 2208 0573 Sociology of the City Sub-Areas3
 - 2208 0574 Sociology of Cultural and Ethnic Groups.....3
 - 2208 0577 Sociology of Poverty in the U.S.....3
 - 2208 0579 Community Resources and Youth3

*Recommended

Candidates for the Master of Arts degree may earn 6 sh of credit in 400 level or senior year undergraduate courses. Suggested courses are the following:

 - 2206 0427 Housing in America3
 - 2206 0462 People and Cities: Comparative Urban Studies3
 - 2206 0411 Problems in Urban Geography3
 - 2206 0428 Planning for People3
- III. Related Social/Behavioral Sciences and/or History Electives6 sh
- IV. Free Electives6 sh
- V. Reading Seminar and Comprehensive Examination.....2 sh
 - 2206 603 Independent study in preparation for written examination given in March and October. Candidates may register for Departmental thesis (600) 4 sh in lieu of comprehensive examination.

Minimum: 32 semester hours

GEOGRAPHY AND URBAN STUDIES

Course Descriptions

- 4 2206 501 AIR RESOURCE MANAGEMENT** **3 sh**
Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.
- 4 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY** **3 sh**
Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.
- 4 2206 503 CULTURE REGIONS** **3 sh**
Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space as well as the diffusion process.
- 4 2206 504 PRO-SEMINAR IN GEOGRAPHY** **3 sh**
Research on selected problems in Geography. Problems will vary according to instructor.
- 4 2206 505 HUMAN ENVIRONMENT** **3 sh**
Discussion of population in relation to the physical environment, objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.
- 4 2206 509 WATER RESOURCE MANAGEMENT** **3 sh**
The spatial patterns of the water resource, both surface and ground water. Processes affecting availability and techniques of estimation.
- 4 2206 510 URBAN SYSTEMS ANALYSIS** **3 sh**
The complexity of the city and its modification by means of planning; the systems approach to urban study; the ecological base; different models of urban systems; the impact of technological change; the hierarchy of urban regions; planning in the existing systems and creating new ones.
- 4 2206 511 URBAN AND REGIONAL PLANNING** **3 sh**
Urban and regional planning analyzes planning goals at an integral level. Urban and regional planning are rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.
- 4 2206 520 LANDSCAPES IN TRANSITION** **3 sh**
The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and

methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

4 2206 521 RESEARCH METHODS **3 sh**

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical; mapping techniques; the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

4 2206 550 URBAN STUDIES AND POLICY ANALYSIS **3 sh**

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective the interaction of different social, cultural, economic, political and planning forces examined for their impact upon the resulting system.

4 2206 551 THE METROPOLITAN ECONOMY **3 sh**

The spacing, location and size of cities, the role of transportation in city rhythms and intra- and inter-city relationships. Urban design planning juxtaposed with multi-faceted decision-making processes for an examination of their relative position in the management of urban systems.

**4 2206 603 READING SEMINAR IN GEOGRAPHY
AND URBAN STUDIES** **2 sh**

Required of all Master's Degree candidates concentrating in Geography and Urban Studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination. Candidates may register for departmental 600 thesis (4sh) in lieu of the comprehensive examination.

4 2206 610 URBAN STUDIES SEMINAR **3 sh**

The seminar is designed to analyze concepts and contents in order to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

Prerequisites: 4905 550, 551 and 9 semester hours of urban courses.

Partial list of electives acceptable for the concentration in Urban Studies.

- 2001 553 Urban Psychology
- 2001 555 Psychological Aspects of Poverty
- 2202 533 Spanish Culture in the U.S. Today
- 2204 545 Economics of Labor
- 2205 518 Urban History of Northern New Jersey
- 2205 526 The Industrialization of America, 1865-1900
- 2206 510 Urban Systems and Planning
- 2206 521 Research Methods and Techniques in Geography and Urban Studies

HISTORY CONCENTRATION

Graduate Advisor: Dr. Richard J. Barker

- | | | |
|------|--|----------|
| I. | Required Courses..... | 3 sh |
| | 2205 501 New Interpretations in History..... | 3 |
| | or | |
| | 2205 502 History and the New Social Studies | 3 |
| II. | History Electives | 12-15 sh |
| | 2205 501 New Interpretations in History..... | 3 |
| | 2205 502 History and the New Social Studies | 3 |
| | 2205 511 Seminar in American Colonial History | 3 |
| | 2205 512 The American Revolution, 1763-87..... | 3 |
| | 2205 513 Problems of the New Nation, 1789-1828..... | 3 |
| | 2205 514 Crisis of American Nationalism, 1828-1876..... | 3 |
| | 2205 517 Age of Franklin D. Roosevelt | 3 |
| | 2205 518 Urban History: National Trends in N.J. Cities | 3 |
| | 2205 519 The U.S. in the Nuclear Age..... | 3 |
| | 2205 520 United States - Far Eastern Relations..... | 3 |
| | 2205 521 Civil War and Revolution in Chinese History | 3 |
| | 2205 522 Revolutionary Russia, 1905-21 | 3 |
| | 2205-523 History of Soviet Diplomacy..... | 3 |
| | 2205 524 History of American Business Leaders | 3 |
| | 2205 525 History of American Labor, 1870-1970 | 3 |
| | 2205 526 The Industrialization of America, 1865-1900 | 3 |
| | 2205 527 The Industrialization of Europe | 3 |
| | 2205 529 Europe of the Dictators, 1919-39..... | 3 |
| | 2205 530 Nationalism in Modern India..... | 3 |
| | 2205 532 Modernization in Japanese Cultural History..... | 3 |
| | 2205 533 French Revolution and Napoleon | 3 |
| | 2205 537 19th Century European Intellectual History..... | 3 |
| | 2205 540 Europe as a World Civilization..... | 3 |
| | 2205 541 Asian Civilization - Comparative Cultural History..... | 3 |
| III. | Related Social/Behavioral Science Electives | 6-9 sh |
| IV. | Free Electives | 6 sh |
| V. | Reading Seminar and Comprehensive Examination..... | 2 sh |
| | 2205 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination. | |

Minimum: 32 sh

NON-WESTERN CULTURES CONCENTRATION

Graduate Advisor: Dr. Lois A. More

- | | | |
|----|-----------------------------------|----------|
| I. | Required Courses | 15-18 sh |
| | 2202 535 Ethnology..... | 3 |
| | or | |
| | 2202 536 Cultural Diversity | 3 |

And at least two of the following:

2205 520	United States—Far East Relations	3
2205 521	Civil War and Revolution—Chinese History	3
2205 530	Nationalism in Modern India.....	3
2205 532	Modernization in Japanese Cultural History.....	3

And one of the following:

2207 523	The Politics of Developing Areas.....	3
2207 524	Africa and Asia in World Politics.....	3

Suggested Social/Behavioral Science and/or History

Electives.....6-9 sh

2202 537	Cultural Stability and Change	3
2202 540	Social Anthropology and History.....	3
2206 503	Culture Regions.....	3
2208 567	Power and Social Stratification.....	3

II. Free Electives6 sh

III. Reading Seminar and Comprehensive Examination2 sh

4910 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination.

Minimum: 32 sh

HISTORY AND NON-WESTERN CULTURES

Course Descriptions

5 2205 501 NEW INTERPRETATIONS IN HISTORY **3 sh**

Designed to help teachers keep up to date in the fields of American, European and Non-western History. Major trends and developments in the study of history in the light of recent representative examples of historical research and interpretation.

Prerequisite: Open only to history candidates or students with social studies certification.

5 2205 502 HISTORY AND NEW SOCIAL STUDIES **3 sh**

Designed to assist teachers, administrators and supervisors in acquiring a comprehensive view of modern materials, methods and curricula in history and the social sciences. Critical evaluation implications for total school programs and for actual use in the classroom.

Prerequisite: Open only to students with social studies certification, or permission of the instructor.

5 2205 511 SEMINAR IN AMERICAN COLONIAL HISTORY **3 sh**

Examine the forces and conditions of the colonial period which contributed to the shaping of the characteristics of American political and economic institutions, social practices and ideas, intellectual outlooks and attitudes.

- 5 2205 512 THE AMERICAN REVOLUTION, 1763-1787** **3 sh**
 The causes and course of the American revolution from both British and American viewpoints, including analysis of economic, political, social and intellectual factors.
- 5 2205 513 PROBLEMS OF THE NEW NATION,** **3 sh**
 1789-1828
 The growth of political institutions under the constitution, the gaining of respect as a new country in the family of nations, the establishment of economic credit and the rise of American nationalism.
- 5 2205 514 THE CRISIS OF AMERICAN NATIONALISM,** **3 sh**
 1828-1876
 The crisis in American nationalism from Jackson through Reconstruction as the country's Constitution, party system, and social structure contended with the disruptive effects of territorial expansion, the factory system, slavery and the new immigration.
- 5 2205 517 AGE OF FRANKLIN D. ROOSEVELT** **3 sh**
 An opportunity to study that part of recent American history centering about Franklin Delano Roosevelt. While concentrating on domestic aspects of American life, attention is given also to foreign affairs and their impact on the daily lives of Americans.
- 5 2205 518 URBAN HISTORY: NATIONAL TRENDS IN NEW** **3 sh**
JERSEY CITIES
 An advanced survey of the urban dimension in American History and of Urban History as a discipline. Late 19th and 20th century national trends are pin-pointed within the development of Paterson, Passaic, Jersey City, Newark and their suburbs.
- 5 2205 519 UNITED STATES IN NUCLEAR AGE** **3 sh**
 The role of the United States in world affairs in the period 1939 to the present. The impact of domestic affairs on foreign policy.
- 5 2205 520 US-FAR EASTERN RELATIONS** **3 sh**
 United States relations with China and Japan, 1842 to the present; the men who formulated and implemented U.S. Foreign Policy.
- 5 2205 521 CIVIL WAR AND REVOLUTION IN CHINESE** **3 sh**
HISTORY, 1911-1949
 The transformation of China from empire to peoples republic; Chinese concepts of revolution and the intellectual, political and social changes which preceded the formation of the peoples republic in 1949.
- 5 2205 522 REVOLUTIONARY RUSSIA, 1905-1921** **3 sh**
 The historical forces of 19th and 20th century Russia which led to the Bolshevik revolution of November, 1917 and to the consolidation of Soviet power by 1921.

5 2205 523 HISTORY OF SOVIET DIPLOMACY 3 sh

Changes in the ideological determinants of Soviet diplomacy contrasted with fluctuations in internal and external political and economic policies. Contributions of leading Soviet statesmen to diplomatic history.

5 2205 524 HISTORY OF AMERICAN BUSINESS LEADERS 3 sh

Designed to familiarize students with major developments in American business history. The mutual impact of business and society is investigated through biographical studies of leading American businessmen.

5 2205 525 HISTORY OF AMERICAN LABOR 3 sh

Study of the American worker from the period after the Civil War to the present, with concentration on social, political and economic behavior as well as the union movement.

5 2205 526 THE INDUSTRIALIZATION OF AMERICA, 1865-1900 3 sh

The causes and nature of the industrialization of the American economy after the Civil War; factors responsible for rapid economic growth; the impact of changing productive techniques on American institutions and human welfare.

5 2205 527 THE INDUSTRIALIZATION OF EUROPE 3 sh

European economic development with major attention to the period since about 1750; comparing economic growth during the 19th and 20th centuries in Britain, France, Germany, Italy and Russia.

5 2205 529 EUROPE OF THE DICTATORS, 1919-1939 3 sh

The political, social, economic and intellectual developments in the major states of western Europe during the interwar period, with emphasis on varieties of fascism.

5 2205 530 NATIONALISM IN MODERN INDIA 3 sh

Cultural and political history of India from 1800 to the present; the contributions of Hindu nationalism and British liberalism to the Indian Independence Movement and the Post-1947 Democratic Experiment.

5 2205 532 MODERNIZATION IN JAPANESE CULTURAL HISTORY 3 sh

Modernization in East Asia with focus on Japan. Japanese experience in adjusting New World forces of the 19th and 20th centuries considered against the background of traditional values and institutions. Comparisons with China and Korea.

5 2205 533 FRENCH REVOLUTION AND NAPOLEON 3 sh

The background of the French Revolution, its changing course and cast of characters during 1789-99, and the advent to power and imperial regime of Napoleon, 1799-1814.

5 2205 534 FRANCE OF THE REPUBLICS **3 sh**
 The development of modern France since 1870. Political, economic and intellectual conditions and trends through the third, fourth and fifth republics.

5 2205 537 NINETEENTH CENTURY EUROPEAN INTELLECTUAL HISTORY **3 sh**
 Romantic, utilitarian, conservative, liberal and early existential streams of thought in 19th Century Europe. The impact of these intellectual movements on European society.

5 2205 540 EUROPE AS A WORLD CIVILIZATION **3 sh**
 General analysis and reappraisal of the place of Europe in World History. The development, distinctive contributions and future prospects of European civilization examined in the light of contemporary world conditions.

5 2205 541 ASIAN CIVILIZATION—COMPARATIVE CULTURAL HISTORY **3 sh**
 Compares & contrasts central value systems, kinship institutions, social satisfaction and the exercise of political power in traditional India, China & Japan. These topics are related to differing patterns of Nationalism in the 19th & 20th centuries.

5 2205 603 READING SEMINAR IN HISTORY **2 sh**
 Required for all master's degree candidates concentrating in history. This seminar entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration. Candidates should register for the seminar in the semester preceding the examination date.

A maximum of two senior-graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin.

- 2205 411 Intellectual History of the United States
- 2205 426 The Nazi Third Reich
- 2205 431 Development of Indian Character and Culture
- 2205 432 Development of Japanese Character and Culture

POLITICAL SCIENCE CONCENTRATION

Graduate Advisor: Dr. Edward W. Johnson

- I. Required Courses.....3 sh
 - 2207 502 Modern Political Analysis3
- II. Political Science Electives.....12-15 sh
 - 2207 501 Public Administration and Public Policy.....3
 - 2207 512 Origin and Development of the Constitution3
 - 2207 521 History and Political Thought.....3
 - 2207 522 Great Britain and the Commonwealth3

2207 523	Politics of Developing Areas.....	3
2207 524	The Third World in the International System	3
2207 551	Contemporary Constitutional Law	3
2207 552	The President and Congress	3
2207 553	The Federal Judicial Process.....	3
2207 554	American Political Thought	3
III.	Related Social/Behavioral Sciences and/or History	
	Electives.....	6-9 sh
IV.	Free Electives	6 sh
V.	Reading Seminar and Comprehensive Examination	2 sh
2207 603	Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

POLITICAL SCIENCE

Course Descriptions

6 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY **3 sh**

Literature and developments in the field of public administration from Woodrow Wilson to the current comparative public administration movement. Techniques of administrative management, and personnel and financial administration in the federal bureaucracy.

Prerequisite: An undergraduate course in administration or permission of the instructor.

6 2207 502 MODERN POLITICAL ANALYSIS **3 sh**

Required of all master's degree candidates concentrating in political science, this course deals with the methodologies and orientations that have guided the study of political phenomena. Utility of methods and the validity of theories are examined by reference to data related to specific political systems. Perspective is comparative and theoretical.

Prerequisite: 2207 300 or equivalent, or permission of instructor.

6 2207 512 ORIGIN AND DEVELOPMENT OF THE U.S. CONSTITUTION 1619-1835 **3 sh**

The roots and influences that determine the nation's basic political document. The role of the marshall court in shaping the constitution.

Prerequisite: A course in American government or permission of the instructor.

6 2207 521 HISTORY OF POLITICAL THOUGHT **3 sh**

Systematic analysis of the three main patterns of political discourse A) traditions of order, B) freedom and society, and C) pre-socratic thinkers to Herbert Marcuse. Leading concepts of each tradition related to their historical and institutional contexts.

Prerequisite: A course in political theory or permission of the instructor.

6 2207 522 GREAT BRITAIN AND COMMONWEALTH 3 sh
Origins, membership and working institutions of the British Commonwealth of Nations. Problems of the Commonwealth since 1945, in light of Britain's altered position in International and European affairs.

6 2207 523 POLITICS OF DEVELOPING AREAS 3 sh
Introduction to the field of political stability and change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary and continuing search for political modernization in the emerging nation-states of Africa, Asia and Latin America.
Prerequisite: Course in politics of development and modernization or permission of instructor.

6 2207 524 THE THIRD WORLD IN THE INTERNATIONAL SYSTEM 3 sh
The position and role of African and Asian nation-states in contemporary International relations; mutual relations; their encounters with the major powers; involvement in general International organizational and diplomatic activity and domestic political and economic factors that affect or underlie their International interactions.
Prerequisite: 2207 202 or equivalent, or permission of instructor.

6 2207 551 CONTEMPORARY CONSTITUTIONAL LAW 3 sh
The Supreme court's decisions in the area of public law. Critical analysis and in-depth study of the first ten amendments, especially as related to the court's recent decisions.
Prerequisite: A course in Constitutional law or permission of the instructor.

6 2207 552 THE PRESIDENT AND CONGRESS 3 sh
Organization, structure and powers of the national executive and legislative branches of government. Emphasis on legislative-executive relationships, nature and functioning of the legislative powers, respective roles of the President and Congress in the formulation of public policy in a modern democracy.
Prerequisite: A course in American government or permission of the instructor.

6 2207 553 FEDERAL JUDICIAL PROCESS 3 sh
The federal courts as a political subsystem court organization, civil and criminal procedures, judicial behavior of federal judges, interactions between federal courts, relations with clientele groups and other branches of the federal government, the flow and content of litigation, and relations with state court systems.
Prerequisite: A course in American government or state and local government or permission of the instructor.

6 2207 554 SEMINAR IN AMERICAN POLITICAL
THOUGHT

3 sh

The various interpretations of American political thought. Nature and limitations of the liberal ethos underlying the American political and Constitutional system; the controversy over the bias of American pluralism.

Prerequisite: A course in American political thought or permission of the instructor.

6 2207 603 READING SEMINAR IN POLITICAL SCIENCE

2 sh

Required of all master's degree candidates concentrating in political science, this seminar entails directed independent study in preparation for a three-hour written comprehensive examination.

The following 400-level courses are available for election by graduate students for graduate credit:

- 2207 408 Development of Political Thought to Machiavelli
- 2207 409 Modern Political Thought
- 2207 410 Directed Study
- 2207 416 Selected Topics in Political Science
- 2207 430 International Law

SOCIOLOGY CONCENTRATION

Graduate Advisor: Dr. Barbara Chasin

I.	Required Courses	9 sh
	2208 560 Sociological Theory	3
	2208 568 Seminar: Sociological Research Methods I	3
	2208 571 Seminar: Sociological Inquiry	3
II.	Sociology Electives	9 sh
	2208 559 Sociology of Deviance	3
	2208 561 The Construction of Social Theory	3
	2208 562 Social Change	3
	2208 563 Self and Society	3
	2208 564 Social Planning	3
	2208 565 Sociology of Youth	3
	2208 566 The Metropolitan Community	3
	2208 567 Power and Social Stratification	3
	2208 569 Seminar: Sociological Research Methods II	3
	2208 570 Independent Project	3
	2208 572 Selected Problems in Sociology	3
	2208 573 Sociology of City Sub-Areas	3
	2208 574 Sociology of Cultural and Ethnic Groups	3
	2208 575 Sociology of Voluntary Membership Institutions	3
	2208 576 The Family as an Institution	3
	2208 577 Sociology of Poverty in the U.S.	3
	2208 579 Community Resources and Youth	3
	2208 580 The Sociology of Higher Education	3
III.	Related Social/Behavioral Science and/or History Electives	6 sh

- IV. Free Electives6 sh
- V. Reading Seminar and Comprehensive Examination.....2 sh
- 2208 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination.

Minimum: 32 semester hours

SOCIOLOGY

Course Descriptions

8 2208 559 SOCIOLOGY OF DEVIANCE 3 sh

The efforts of such people as Lemert, Becker, Merton, Matza and others to develop theories concerning crime, delinquency, mental illness, and other issues which can be viewed as social problems.

8 2208 560 SOCIOLOGICAL THEORY 3 sh

The practical and philosophical methods of the seminal sociological theorists, investigated and evaluated in terms of many conceptions of adequate scientific procedure.

8 2208 561 CONSTRUCTION OF SOCIAL THEORY 3 sh

Sociological theory as an artful practice. Theorists, such as Durkheim, Weber, Marx, Freud, Skinner and Merton discussed as courses of action.

8 2208 562 SOCIAL CHANGE 3 sh

The dynamics of contemporary societies: sacred and secular movements, technological and cultural change, protest and revolution, and 20th century nationalism. The effect of change considered in relation to individuals, groups, institutions and total societies.

8 2208 563 SELF AND SOCIETY 3 sh

The relationships between the human individual and his social environment; the formation, maintenance and transformation of self or identity; the structure and processes of small groups; symbolic communication role theory, cognitive dissonance and inter-group conflict.

8 2208 564 SOCIAL PLANNING 3 sh

The many elements and considerations in planning for a community, a state or a nation. The social context of planning; projective techniques; budgets, master plans, development programs and area proposals. The human, the economic, the ecological. Students will be expected to undertake a social planning project. A basic knowledge of statistics and the use of statistical data is desirable.

8 2208 565 SOCIOLOGY OF YOUTH 3 sh

Socialization processes acting upon young people; the role of family, neighborhood, school and community; the effects of failures in these socializing agencies; changing relations among age grades; quantitative studies of the culture of youth with comparisons to other age grades.

8 2208 566 THE METROPOLITAN COMMUNITY 3 sh

The many dimensions of the metropolitan community: Human factors, problems an area faces, political difficulties, interaction between the center city and the other parts of the community. Emphasis on New York-New Jersey.

8 2208 567 POWER AND SOCIAL STRATIFICATION 3 sh

Conceptual, theoretical and empirical approaches to sociological studies of power and social inequalities. Each refined by contemporary researchers on power, power elite, the ruling class, class interests, class consciousness, alienation, class struggle, and social mobility, etc., through comparative perspectives.

Prerequisite: One or more sociology courses at 500 level or permission of instructor.

8 2208 568 SOCIAL RESEARCH METHODS I 3 sh

The elements of sociological methods. Included in this course are study design, hypotheses development, data collection techniques, use of primary and secondary sources, and field techniques. Each student will participate in a multi-city field research laboratory project which is designed and executed co-jointly with graduate students and faculty of cooperating colleges. The field project provides the students with a unique experience because of the diversity of communities investigated, and because of their participation in a major project with a team of researchers.

8 2208 569 SOCIAL RESEARCH METHODS II 3 sh

Continuation of Social Research Methods I. The elements of method included are: coding techniques, analysis and scientific report writing.

8 2208 570 INDEPENDENT PROJECTS 3 sh

Each student seeking an M.A. degree with an emphasis in Sociology will be guided in the development and execution of an independent project. The faculty advisor will be chosen by mutual agreement of the student and faculty member.

8 2208 571 SEMINAR SOCIOLOGICAL INQUIRY 3 sh

Develops competence needed for the critical assessment of sociological literature, the formulation of productive research problems and for sophisticated pursuit of inquiry. Intensive study of a number of readings dealing with certain crucial areas of sociological concern. Also gives students coming into sociology concentration without a broad background remedial experience in dealing with advanced concepts, theories and methods.

Prerequisite: Instructor's permission.

8 2208 572 SELECTED PROBLEMS IN SOCIOLOGY 3 sh

The intensive exploration of a general problem in sociology. Participants contribute research into an aspect of the problem. Formed at the initiative of a department member or in response to student's interest with consent of the instructor.

8 2208 573 SOCIOLOGY OF CITY SUB-AREAS 3 sh

The social forces in the inner city and other sub-areas; existing and emerging cultural strengths and positive supportive patterns; problems related to poverty, housing, education, employment, leisure and aesthetics.

8 2208 574 SOCIAL, CULTURAL AND ETHNIC GROUPS 3 sh

A study of the major cultural and ethnic groups in American society, with particular attention to relationships among groups and the significance of these relationships to the structure of society. The student will be asked to prepare a report of the group of his choice.

8 2208 575 SOCIOLOGY OF VOLUNTARY MEMBERSHIP INSTITUTIONS 3 sh

Descriptive and theoretical analysis of constructive action patterns in leisure and other voluntary membership institutions; structural and functional significance of these behaviors the the American social order.

8 2208 576 THE FAMILY AS AN INSTITUTION 3 sh

The family unit as an institution within society; the family in contemporary American society; the family sociologically examined as an institutional form, a social system in process and a socializing agency.

8 2208 577 SOCIOLOGY OF POVERTY IN U.S. 3 sh

Poverty as a major domestic problem; the causes and effects of social deprivation; historical and contemporary efforts and its solution.

8 2208 579 COMMUNITY RESOURCES AND YOUTH 3 sh

Resources for the healthy as well as the deviant child, in the family and neighborhood, in addition to services provided by public and private agencies; relevant federal and state legislation.

8 2208 580 THE SOCIOLOGY OF HIGHER EDUCATION 3 sh

This course will introduce students to view the university, its structures, history, and place within society from a sociological perspective.

8 2208 603 READING SEMINAR IN SOCIOLOGY 2 sh

Required for all master's candidates concentrating in sociology who elected to take a comprehensive examination. Candidates should register for the seminar in the semester preceding the examination date.

Two of the allowable Senior-Graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate bulletin. Recommended electives:

- 2008 403 Sociology of Knowledge
- 2208 408 Social Movements
- 2208 425 Sociology of the Future
- 2208 430 Sociology of Sex Roles
- or any of the 400 level Topics courses.

SPANISH/ITALIAN

Chairperson: Dr. Norman Fulton

Graduate Advisor: Dr. Robert McCormick

The program is designed to prepare students for research in language and literature, and for professional positions demanding a knowledge of Spanish: interpreters; translators; counselor service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors; organizers of projects for Spanish-speaking communities; and representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in colleges and universities.

ADMISSION REQUIREMENTS

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours or the equivalent of undergraduate Spanish and hold a bachelor's degree. These students must take the Graduate Record Examination in Spanish prior to acceptance into the program.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a Master's degree program, if they have 24 credit hours or the equivalent in Spanish.

After acceptance, candidates will consult the graduate advisor to plan their programs.

REQUIREMENTS FOR THE MASTER OF ARTS IN SPANISH

Students elect either Peninsular or Spanish-American area as a primary field; the other area becomes a secondary field of specialization. Specific course selection to be made with the approval of the Graduate Advisor.

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|------|--|-------|
| I. | Latin America | 12 sh |
| II. | Peninsula | 12 sh |
| III. | Required Course 1105 503..... | 3 sh |
| IV. | Electives | 9 sh |
| V. | Comprehensive Examination. Upon completion of 33 semester hours, the candidate may apply for a comprehensive examination, which covers the literature of the student's major field of specialization, with the understanding that he will devote either one semester or a summer in preparation for the examination. | |

For full details please see the graduate advisor.

Minimum: 33-36 semester hours

SPANISH

Course Descriptions

P 1105 505 HISTORY OF SPANISH LANGUAGE 3 sh

The Spanish language from its origins to the present. Phonological, structural and lexical evolution from vulgar Latin, following the process of transformation from its first documentary appearance.

P 1105 506 SPANISH DIALECTOLOGY OF THE AMERICAS 3 sh

This course acquaints the student with the various dialects of Spanish found in America. The student learns to recognize, characterize and describe accurately the various dialects discussed. Lectures are presented on each dialect with student discussion following. Taped conversations representing the various dialects are then played and discussed.

Peninsular Area

P 1105 516 MEDIEVAL SPANISH LITERATURE TO XV CENTURY 3 sh

An analysis of outstanding works from the 11th century Jarchas and Cantarcillos De Amigo to the advent of renaissance.

P 1105 521 PRE-RENAISSANCE-PRE LOPISTA THEATRE 3 sh

Origins and developments of the Spanish theater to the beginning of the golden age. Thematic study of major playwrights including Juan Del Encina, Lucas Fernandez, Vicente and Torres Naharro.

P 1105 522 THEATER OF THE GOLDEN AGE 3 sh

Structural and thematic study of the comedia through readings and discussion of representative plays of the period including Lope, Tirso, Calderon, Alarcon and Moretto.

P 1105 523 PROSE & POETRY OF THE GOLDEN AGE 3 sh

Critical readings of the picaresque and pastoral novels, humanistic writings of Luis Vives, Alfonso and Juan Valdes, and gracion textual analysis of the poetry of the Renaissance and Baroque from Garcilaso to Quevedo.

P 1105 524 CERVANTES 3 sh

The prose writings and drama of Cervantes focusing on his unique artistic achievement. Readings of El Quijote, Novelas ejemplares, parsiles y segismunda, his comedias and entremeses.

P 1105 525 LA ILUSTRACION AND ROMANTICISM 3 sh

The Erudition of the Enlightenment as symbolized by Feijoo, Jovel-

lanos; Neoclassicism; the romantic movement exemplified by: Larra, El Duque De Rivas, Espronceda, Garcia Gutierrez, Zorrilla, Alarcon. Costumbrismo.

P 1105 526 REALISM IN SPAIN

3 sh

Problems germane to 19th century Spain, as shown by Fernan Caballero, Pereda, Blasco Ibanez. Particular emphasis upon the works of Perez Galdos.

P 1105 527 THE GENERATION OF 98

3 sh

A reprobing into the roots of Spain through the works of Unamuno, Azorin, Baroja, Valle-Inclan, Benavente, Ortega y Gasset and Maeztu.

P 1105 533 CONTEMPORARY SPANISH THEATER

3 sh

Representative plays from Benavente to Sastre are read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.

P 1105 534 SPANISH PROSE OF THE XX CENTURY

3 sh

Prose works of the generations of 1927 and 1936; Lorca, Casona. Trends in contemporary prose; Buero Vallejo, Sastre, Cela, Zunzunegui, Delibes, Goytisolo, Laforet, Matute and selected younger writers of the present generation.

P 1105 535 CONTEMPORARY SPANISH POETRY

3 sh

Unamuno, Machado, Jimenez. The poetry of the generation of '27 and selective readings of younger poets of today. Emphasis on textual analysis.

Spanish-American Area

P 1105 540 COLONIAL SPANISH-AMERICAN LITERATURE

3 sh

Indigenous literature such as the Popol Vuh, Rabinal Achi, and Nahuatl and Quechua poetry, the Chronicles, the Inca Garcilaso and Epic poetry. Sor Juana Ines De La Cruz and Concolorcorvo.

**P 1105 541 SPANISH-AMERICAN LITERATURE OF
XIX CENTURY**

3 sh

The evolution from neoclassicism and romanticism to naturalism and realism in prose and poetry. Fernandez De Lizardi, Heredia, La Avelaneda, Matto De Turner, Sarmiento and the Gaucho poets.

**P 1105 542 SPANISH-AMERICAN NOVEL OF
THE XX CENTURY**

3 sh

Study of the aesthetic novels of modernismo, novels of Mexican revolution, psychological novel and novel of the land and of social reform.

P 1105 543 SPANISH AMERICAN THEATER OF THE XX CENTURY 3 sh

New Trends in the Spanish/American Theater—The Theater of the Absurd and the Theater of Cruelty, and the Fantastic. Readings of such representative playwrights as Emilio Carballido, Carlos Solorzano, Elena Garro, Osvaldo Dragun, Griselda Gambaro.

P 1105 546 MODERNISMO IN SPANISH AMERICA 3 sh

Critical evaluation of the Modernista movement in Spanish-American poetry and prose (1870-1920). The Genesis, technique, characteristics and principal writers of the movement.

P 1105 548 CONTEMPORARY SPANISH—AMERICAN NOVEL 3 sh

A critical examination of representative works of contemporary writing in Spanish America. The relation of the Spanish American novel to the genre in Europe, North America and Spain.

P 1105 549 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3 sh

Study of the tendencies in the contemporary short story from the post-modernist period, realism and fantasy. The short story as a social document.

P 1105 551 CONTEMPORARY SPANISH-AMERICAN POETRY 3 sh

Individual works of poetry as autonomous linguistic and artistic creations and as part of a general renaissance in culture. post-modernism, vanguardism and post-vanguardism.

P 1105 560 TOPICS IN SPANISH-AMERICAN LITERATURE 3 sh

Selected specialized topics, either of a period, genre, or particular author, in Spanish/American literature. Topic will change with each offering.

Italian Courses

P 1105 570 PETRARCH AND BOCCACCIO: THE WANING OF THE MIDDLE AGES AND THE FOUNDATIONS OF THE HUMANISTIC CULTURE 3 sh

Medieval literary traditions, in particular of the genres of lyric poetry and short story. Petrarch and Boccaccio as founders of humanistic culture; their philosophical, devotional and scholarly writings. The Italian poetry of Petrarch, Canzoniere and Trionfi. Boccaccio's *Decameron*.

P 1105 572 LITERARY AND PHILOSOPHICAL TRADITIONS IN DANTE'S DIVINE COMEDY 3 sh

Discussion of specific themes of the *Divine Comedy*, such as Dante's

conception of history, idea of physical world, theories on light and music, medieval tradition of classicism, prophetic and eschatological literature. Examination of these issues in the light of their historical tradition as well as in Dante's personal interpretation.

P 1105 574 MACHIAVELLI AND RENAISSANCE THOUGHT 3 sh
Italy in the age of the signorie. Machiavelli's and Guicciardini's writings and their impact on European culture and thought. Interpretation and evaluation of their works.

SPEECH AND THEATER

Chairperson: Dr. Wayne Bond

Graduate Advisor: Dr. Gerald Ratliff

The Master of Arts degree in Speech and Theater is designed to enhance the development of already existing skills in communication theory, public media arts, and theater. The program is structured to emphasize both the theoretical and practical approaches to speech and theater, and to allow for original research and creative projects. Special attention is paid to the literature and history of each area of concentration, and to the respective academic skills necessary to become a practitioner of the selected discipline. The course sequence and content are designed to strengthen teaching, performance, and analytical skills, and to prepare those who wish to pursue a profession in media and arts related areas. The Master of Arts degree is also ideally suited for those who plan to continue in a program of doctoral studies.

The department's facilities include a 1,000-seat major theater and flexible studio theater, both with remote-control pre-set switchboards; a well-equipped scene shop; extensive costume and prop collections, with work rooms; new theater rehearsal studios; also new television studios with extensive color recording and play-back equipment.

ADMISSION REQUIREMENTS

Students wishing to matriculate as speech and theater majors must have completed a major or the equivalent from the following areas: theater, oral interpretation, speech or mass communication. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory backgrounds through undergraduate courses for which credit is not given.

REQUIREMENTS FOR THE MASTER OF ARTS IN SPEECH AND THEATER

The candidate must complete all four parts of the requirements for the degree as detailed below.

I. Core Courses	7-9 semester hours
1506 501 Survey of Research Methods	3
0603 or 1007 or 1506 600 Thesis	4
or non-thesis option: selected courses recommended by Graduate Advisor	6
II. Elective Courses within the Concentration	19 semester hours

CONCENTRATION IN THEATER

Emphasis in either Technical Theater or Acting/Directing

1007 500 Independent Study	By arrangement
1007 504 Contemporary Experimental Theater	3
1007 507 Seminar in Dramatic Production	3
1007 508 Internship in Dramatic Production	3-7
1007 511 Forms of Tragedy	3
1007 512 Forms of Comedy	3
1007 513 Modern and Contemporary Theater History	3
1007 514 Non-Western Drama and Theater	3
1007 517 Theater Criticism	3
1007 525 Advanced Acting Workshop	3
1007 535 Advanced Directing Workshop	3
1007 545 Scenic Design I: The Legitimate Theater	3
1007 546 Scenic Design II: The Performing Arts	3
1007 554 Stage Lighting Design	3
1007 555 Advanced Problems in Technical Production	3
1007 575 Seminar in Costume Design & Construction	3
1007 580 Theater Management	3
1007 599 Independent Study	By arrangement
1007 600 Thesis	4
1506 504 Advanced Applied Phonetic Study	3
1506 509 Special Problems in Speech and Theater	3
1506 565 Advanced Oral Interpretation	3

CONCENTRATION IN SPEECH

1506 500 Independent Study	By arrangement
1506 501 Survey of Research Methods	3
1506 503 Advanced Voice and Speech Improvement	3
1506 504 Advanced Applied Phonetic Study	3
1506 509 Special Problems in Speech and Theater	3
1506 511 Revolutionary Rhetoric	3
1506 519 Seminar in Rhetorical Criticism	3
1506 521 Competitive Forensics	3
1506 533 Lecture and Lecture Recital	1
1506 536 Seminar in Persuasion	3
1506 560 Internship in Oral Communication	3-7
1506 565 Advanced Oral Interpretation	3

1506 599	Independent Study	By arrangement
1506 600	Thesis	4
0603 581	The Broadcast Media and Mass Culture	3

INTERDISCIPLINARY CONCENTRATION IN PUBLIC MEDIA ARTS

A study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603 500	Independent Study.....	By Arrangement
0603 510	Television Production I.....	3
0603 511	Television Production II.....	3
0603 580	Internship in Public Media Arts.....	3-7
0603 581	The Broadcast Media and Mass Culture.....	3
0603 582	Techniques of Broadcast Communication.....	3
0603 599	Independent Study	By arrangement
0603 600	Thesis	4
1506 511	Revolutionary Rhetoric.....	3
1506 519	Seminar in Rhetorical Criticism	3
1506 533	Lecture and Lecture Recital	1

In addition, the graduate student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the advisor's permission. Prerequisites required in these courses can be taken as free electives.

III. Free Electives6 sh
Can be utilized as necessary for graduate course prerequisites and/or professional education courses.

IV. Additional departmental requirements:

1. Written comprehensive examination.
2. Demonstration of oral competence: candidate must demonstrate proficiency in handling speech in a public situation.

Minimum with Thesis: 32 sh

Minimum without Thesis: 34 sh

In addition to the courses described below, the department offers special workshops and seminars presented by working professionals from the various fields. Graduate students should consult with their advisor to take advantage of these opportunities.

SPEECH AND THEATER

Course Descriptions

I 0603 500 INDEPENDENT STUDY-SPEECH & THEATER 1-3 sh

The undertaking of course work in one of the regularly listed catalog courses of the dept. of speech and theater in a depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the graduate advisor for speech & theater prior to registration. Independent study may be elected more than once during the graduate program.

I 0603 510 TELEVISION PRODUCTION I 3 sh

Insight and experience in the production of in-studio programs for television. Attention on commercial production, news, interviews, demonstrations, lighting and graphics. Open to majors or permission of instructor.

I 0603 511 TELEVISION PRODUCTION II 3 sh

Group activity in the preparation and presentation of broadcast materials including music programming, drama, interviews and educational school programming.

Prerequisite: 603 510.

I 0603 580 INTERNSHIP IN PUBLIC MEDIA ART 3-7 sh

Off campus practicum assignments radio and television broadcasting facilities and other learning sites. Broad, balanced and locally supervised experience, by arrangement. Open to majors. Application through the department prior to registration.

I 0603 581 THE BROADCAST MEDIA AND MASS CULTURE 3 sh

Influences and effects of the broadcast media on society policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change. Open to all graduate students.

I 0603 582 TECHNIQUES OF BROADCAST COMMUNICATION 3 sh

Techniques and ethics in the production of informative, entertainment, persuasive and public relations material for mass public consumption. Open to all graduate students.

I 0603 585 PROSEMINAR IN BROADCASTING 3 sh

The structure and operation of the American Broadcasting industry. Its method of change and its relationship with society. The development of broadcasting as an integral element in the evaluation of modern society.

I 0603 599 INDEPENDENT STUDY 1-3 sh

For students pursuing a second independent study.

I 1007 500 INDEPENDENT STUDY IN THEATER **1-3 sh**

Provision for the student to develop graduate projects pursuing individual needs. Proposal must be submitted for departmental approval prior to registration for the course.

I 1007 504 CONTEMPORARY THEATER PRACTICE **3 sh**

The status and practices in today's professional theater writing, playing, staging and producing problems and trends of current theatrical fare. Supplemented by theatrical personnel and visits to professional producing groups in the metropolitan area. Open to all graduate students.

I 1007 507 SEMINAR IN DRAMATIC PRODUCTION **3 sh**

Advanced play production. Students pursue projects to meet individual needs in acting, directing, technical theater or other production aspects. Open to majors.

I 1007 508 INTERNSHIP IN DRAMATIC PRODUCTION **3-7 sh**

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theater, on or off campus. Student assists director, designer, crew chief or technical supervisor. Contracts drawn by student, college sponsor and off-campus supervisor. Open to majors. Application through department before registration.

I 1007 511 FORMS OF TRAGEDY **3 sh**

The evolution of tragic theory as it manifests itself in each of the periods of theater history and dramatic criticism. Included in the examination is an evaluation of representative tragic playscripts in terms of style, structure, tragic devices, content, and performance.

I 1007 512 FORMS OF COMEDY **3 sh**

The evolution of comic theory as it manifests itself in each of the periods of theatre history and dramatic criticism. Included in the examination is an evaluation of representative comic playscripts in terms of style, structure, comic devices, content, and performance.

I 1007 513 MODERN AND CONTEMPORARY THEATER HISTORY **3 sh**

Theatrical history associated with western culture from 1890 to the present. The contemporary theatrical scene and its direct heritage. Some attention to American theater but major emphasis on British and continental developments. Open to all graduate students with a background in dramatic literature.

I 1007 514 NON-WESTERN DRAMA AND THEATER **3 sh**

Theatrical forms and dramatic literature of non-western cultures in historical and contemporary context. China, Japan, India, Southeast Asia, Africa. Theatrical practices in staging various dramatic forms. Open to all graduate students with a background in dramatic literature or Asian studies.

I 1007 517 THEATER CRITICISM**3 sh**

Standards and values by which plays are judged in their historical context. Open to all graduate students with a background in dramatic literature or theater production.

I 1007 525 ADVANCED ACTING WORKSHOP**3 sh**

Challenging roles, problems of style and control, as well as extensive independent study. Open to majors or permission of instructor.

I 1007 535 ADVANCED DIRECTING WORKSHOP**3 sh**

Directing repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook. Open to majors or permission of instructor.

**I 1007 545 SCENIC DESIGN I: THE LEGITIMATE
THEATER****3 sh**

Stage design as related to the play, director and audience styles of design, perspective sketch and stage model in planning stage setting. Stage construction techniques used to demonstrate the necessity of scene design in planning stage production. Open to majors.

Prerequisites: Permission of instructor.

I 1007 546 SCENIC DESIGN II PERFORMING ART**3 sh**

Design problems inherent in musical comedy, opera and dance. Physical qualities of space, arena and proscenium staging and the challenges of each. Projects will involve both lighting and scenic design. Open to graduate students with a background in the performing arts.

I 1007 554 STAGE LIGHTING DESIGN**3 sh**

Introduction to light from pragmatic and aesthetic points of view; functions and qualities as a design media; types of control and instrumentation available to designer. Development of several lighting designs. Open to majors or permission of instructor.

**I 1007 555 ADVANCED PROBLEMS IN TECHNICAL
PRODUCTIONS****3 sh**

Physical resources available to technician. Exploration of new materials and techniques as well as extensive work in standard techniques. Knowledge of drafting techniques helpful. Open to majors or permission of instructor.

**I 1007 575 SEMINAR COSTUME DESIGN AND
CONSTRUCTION****3 sh**

Costume as one visual element of design in the theater. Research procedure, design theory, construction techniques, use of materials.

Prerequisite: Open to major or permission of the instructor.

I 1007 580 THEATER MANAGEMENT**3 sh**

The theater as a business enterprise. Production units; box office procedures; standard contractual arrangements, unions and their regulations,

subscription management. Manager as a community relations specialist; publicity; the theater as a community resource. Open to graduate students with a background in performing arts.

I 1007 592 AREAS AND TECHNIQUES OF RESEARCH IN SPEECH AND DRAMATICS 3 sh

Methods of research appropriate for studies in speech are analyzed. Significant problems in the field are investigated and discussed, and published research projects are evaluated. Special attention is given to the problems of locating and utilizing professional journals and other publications for research. Each student is required to prepare an outline for a research project, to develop a bibliography, to complete the research, and to submit a formal report of the project.

I 1007 599 INDEPENDENT STUDY IN THEATER 1-3 sh
For students pursuing second independent study.

I 1007 600 THESIS 4 sh

Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project. Student should register for the semester in which work will be completed. Written permission for registration from the graduate advisor is required.

I 1506 500 INDEPENDENT STUDY IN SPEECH 1-3 sh

Provisions for the student to develop graduate projects pursuing individual needs. Proposals must be submitted for departmental approval prior to registration for the course.

I 1506 501 SURVEY OF RESEARCH METHODS 3sh

Research methods relating to rhetorical theory, public address, interpersonal communication, theater history, dramatic production and contemporary theatrical idiom. Historical, critical, descriptive, quantitative and experimental models and methodologies, individual student needs and interests are considered. Open to majors.

I 1506 503 ADVANCED VOICE AND SPEECH IMPROVEMENT 3 sh

To refine the voice and diction patterns of the advanced student. Provides student with techniques of evaluating and improving speech of others in a practical setting. Open to majors. Permission of instructor for non-majors.

I 1506 504 ADVANCED APPLIED PHONETIC STUDY 3 sh

The phonetic approach to erasing and acquiring typical and atypical American and foreign speech sounds and patterns for stage, radio, TV and classroom. Open to majors.

I 1506 509 SPECIAL PROBLEMS IN SPEECH AND THEATER 3 sh

Individual problems in theater, speech and mass communication reports, papers, panel discussion and experimentation.

Prerequisites: Majors only or instructor's permission.

- I 1506 511 REVOLUTIONARY RHETORIC** **3 sh**
 The revolutionary speaking of the last decade. Civil rights, university reform and war protest speakers in historical perspective. The student, as rhetorical critic, evaluating speaker and audience, will assess the ultimate effects of revolutionary speaking. Open to all graduate students.
- I 1506 519 SEMINAR-RHETORICAL CRITICISM** **3 sh**
 Functions, types and problems of rhetorical criticisms. Comparison of Aristotelian and non-Aristotelian approaches.
- I 1506 521 COMPETITIVE FORENSICS** **3 sh**
 Techniques for directing and coaching intra- and inter-scholastic forensic events. Discussion, debate, parliamentary congresses speaking, reading and performing contests local, regional and national tournament administration scheduling, rules, publicity, housing and awards. Open to all graduate students.
- I 1506 533 LECTURE AND LECTURE RECITAL** **1 sh**
 Study of professional work on the public platform climaxed by a lecture or recital of a professional nature. Open to major.
- I 1506 534 GRADUATE READINGS IN SPEECH AND THEATER** **1-3 sh**
 Readings in professional and scholarly literature selected by each student in consultation with members of the graduate committee.
 Prerequisite: Graduate standing.
- I 1506 536 SEMINAR IN PERSUASION** **3 sh**
 Critical examination of psychological, sociological and cultural dimensions of persuasive discourse.
- I 1506 560 INTERNSHIP-ORAL COMMUNICATION** **3-7 sh**
 Off-campus practicum assignments range from serving on campaign speaker's or public speaker's speech staff to coaching students and/or conducting forensic tournaments. Broad, balanced and locally supervised experience, by arrangement. Application through the department prior to registration.
- I 1506 565 ADVANCED ORAL INTERPRETATION** **3 sh**
 Techniques in interpretation of poetry and prose analysis and presentation of types of literary material (short story, ballad, narrative sonnet, etc.)
 For use in classroom and special programs. Open to all graduate students.
- I 1506 599 INDEPENDENT STUDY** **1-3 sh**
 For students pursuing a second independent study in this area.
- I 1506 600 THESIS-SPEECH & THEATER** **4 sh**
 Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project student should register for the semester in which work will be completed. Written permission for registration from the graduate advisor is required.

NON-DEGREE POST-BACCALAUREATE POST MASTER OF ARTS APPROVED CERTIFICATION PROGRAMS

Chairperson: Dr. Catherine Becker

Certification Advisor: Ms. Marcella P. West

I. TEACHER CERTIFICATION

A student with a baccalaureate degree may receive a New Jersey teaching certificate, and a fully certified teacher may obtain additional teaching field endorsements or advanced certification while attending Montclair State College (See list of areas on page 225.) Students planning to enter the Approved Teacher Certification Program must follow the prescribed admission procedures described below. Upon successful completion of an approved program, the student will be recommended to the New Jersey Department of Education for a teaching certificate. Students interested in teaching outside of New Jersey should seek information from the appropriate state authorities before contacting the certification advisor or any departmental advisor.

ADVISEMENT

All general questions regarding certification, requests for specific information concerning procedures and courses applicable toward approved initial certification programs available at Montclair State College may be directed to Ms. Marcella P. West, (201) 893-4139 in the School of Professional Studies. Students seeking counseling may make an appointment with the certification advisor. Students should call ahead for an appointment.

ADMISSIONS

Those interested in the Post-Baccalaureate/Post M.A. Approved Certification Programs may obtain an application from the college Admissions Office, (201) 893-5182 or 5165, or upon request, from the Certification Advisor's office. Upon acceptance, a student is assigned to a Certification Advisor who will work out with the Faculty (teaching-field) Advisor a formal program of studies. Continuous advisement is available and expected for students in the Approved Teacher Certification Programs.

The Admissions Office will expect to receive from each applicant in the Approved Teacher Certification Program the following information:

A non-degree post-baccalaureate application completely filled out

Teaching certificate where appropriate

A copy of an official transcript from each college and university attended

The Certification Advisor, who then receives this completed application, will, using departmental forms, request three recommendations from individuals who are aware of the applicant's scholastic aptitude, character, and are able to give evidence of the applicant's interest in community affairs and teaching. In addition, a demonstration of competence in speech will also be required before the applicant is fully admitted to a teacher certification program. It should be noted that each department has requirements, such as grade point averages, which have been determined according to college procedures, and which will be followed in determining eligibility for admittance.

TEACHER CERTIFICATION PROGRAM REQUIREMENTS

General Education

Academic background requires a minimum of forty-five semester hour credits in general education including study in at least four of the following areas: English, mathematics, science, social science, fine and practical arts, foreign languages, music and philosophy.

Professional Education

A.	Prerequisites	semester hours
	2001 101 General Psych. I—Human Growth & Development	3
	0829 410 Field Experience in Education	1-3
	(Speech Proficiency Requirements)	
	Details provided by Education Advisor	
	(Physiology/Hygiene Requirements)	
B.	Professional sequence	semester hours
	Major Departmental Methods	3
	0829 400 Teacher, School & Society	3
	2001 200 Education Psychology	3
	0821 420 Philosophical Foundations of Education	3
	Education Elective (pending advisement)	3
	0829 411 Supervised Student Teaching or	8
	0829 414-5 In-Service Supervised Teaching	
	Co-requisite with all Student Teaching Experiences:	
	0829 401 Senior Field Experience and	1
	0829 402 Seminar in Professional Education	1
	0808 407 Developmental Reading I	1
	0808 408 Developmental Reading II	1

C. Teaching Field (Must be selected with departmental approval)

Note:

- 1) The Field Experience in Education must be completed in a semester prior to the semester in which Student Teaching is desired.
- 2) All applicants filing for admission to the Approved Certification and/or M.A.T. Programs must fulfill the course requirement in the Human & Intercultural Relations area for initial teacher certification. The course taken to fulfill this requirement must be selected from the approved courses published each semester by the Registrar in the Schedule of Courses Booklet for registration.

D. Supervised Student Teaching

Students who have been admitted to Teacher Education and who are eligible for Student Teaching must file application the semester prior to semester in which Student Teaching is desired. Application procedures must be completed by:

September 15 for Student Teaching in the Spring Semester

March 15 for Student Teaching in the Fall Semester

All appropriate department and professional education courses must be completed prior to filing application for Student Teaching. This normally would include 9-12 semester hours at Montclair State College including Methods in teaching field.

(Note: There is a combined Teacher Certification and Master of Arts in Teaching (MAT) Program available; information may be obtained through the Department of Curriculum and Teaching as described earlier in this catalog.)

Certification Areas

- A. Business Education: General Business Studies and Accounting, General Business and Secretarial Studies, General Business and Distributive Education
- B. Communication Sciences and Disorders: Speech Correction, Deaf and Hard of Hearing, Teacher of the Handicapped
- C. English
- D. Art
- E. Foreign Languages (French, German, Italian, Latin, Russian*, Spanish)
- F. Health and/or Physical Education
- G. Home Economics
- H. Industrial Arts: Industrial Arts (academic background), Industrial Arts (experience background), Vocational/Technical Education
- I. Mathematics
- J. Music
- K. Nursery School Education-preschool, Kindergarten
- L. Science (Biology*, Chemistry*, Geoscience*, Physics*)
- M. Social Studies
- N. Speech and Theater

II. ADVANCED CERTIFICATION (POST-MASTERS)

State certification is available in the following non-teaching educational specializations:

- A. Administration and Supervision: Supervisor (MA + 15 sh in appropriate course work), Principal, Superintendent
- B. Learning Disabilities Teacher Consultant
- C. Student Personnel Services
- D. Educational Media Specialist
- E. Reading Specialist

III. OTHER FIELDS/ENDORSEMENTS

Non-degree programs leading to state certification are available in the following areas:

- A. Associate Media Specialist
- B. Bilingual/Bicultural
- C. Coordinator Industrial Education
- D. Reading*
- E. Psychology*
- F. School Business Administrator
- G. School Psychologist
- H. School Social Worker
- I. Teacher-Coordinator, Cooperative Vocational-Technical Education
- J. TESL (Teaching of English as a Second Language)*

*Available for second teaching fields only.

EDUCATIONAL PLACEMENT

The Office of Student Teaching also offers an educational placement service. Students completing at least 12 credits at Montclair State College are eligible to register for this service. Further information can be secured from Mrs. Beverly McHugh, Acting Director of Student Teaching and Educational Placement, (201) 893-4262.

MASTER OF ARTS IN TEACHING

Course Descriptions

B 0829 400 TEACHER, SCHOOL AND SOCIETY 3 sh

An overview of the field of education, includes a consideration of instructional, curricular, legal and professional issues affecting teachers, schools and society as well as implications for students. Normally part of the professional semester for full-time undergraduate students. Not for graduate credit.

B 0829 401 SENIOR FIELD EXPERIENCE 1 sh

Part of the Professional Semester. It is designed to provide for experiences in the community in which the student teaches to better understand the place of the school in the community. Placement in professional semester field center. Course only open to student teachers.

B 0829 402 SEMINAR IN PROFESSIONAL EDUCATION 1 sh

Part of the Professional Semester. It provides an opportunity to discuss problems encountered in teaching with peers and supervisors and to

find practical solutions to problems experienced. Placement in professional semester field center. Course only open to student teachers.

B 0829 410 FIELD EXPERIENCE IN EDUCATION

(pre-student teaching)

30 hrs.—1 sh;

60 hrs.—2 sh; 90 hours—3 sh

Thirty hours in a public school as assistant to the classroom or subject teacher. Observing, working with individuals and small groups of students, helping with clubs and student activities, teaching 'mini lessons' and becoming familiar with teacher activities. Each student keeps a log of activities. Class meetings on campus. Pass/Fail.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions Office prior to registering for course.

B 0829 411 SUPERVISED STUDENT TEACHING

8 sh

Student Teaching in the public schools of New Jersey is required of all students who complete the regular program of graduation requirements not for graduate credit. Part of Professional Semester. Not for graduate credit.

B 0829 412 FIELD WORK IN URBAN EDUCATION

(pre-student teaching)

30 hrs.—1 sh;

60 hrs.—2 sh; 90 hours—3 sh

Similar to 0829 0410 with emphasis on tutoring and individual conferences in urban public schools. Student keeps a log of activities. Class meetings on campus. Pass/Fail.

Prerequisite: Admission to Teacher Preparation Program. Obtain course application from the SECS Teacher Admissions prior to registering for course.

B 0829 0413 FIELD WORK IN COMMUNITY

30 hrs.—1 sh;

AGENCIES

60 hrs.—2 sh; 90 hrs.—3 sh

Thirty hours of guided experiences in public and private community agencies. Objectives, scope and activities of agencies related to education. Preparation of report as specified on application form and log of activities. Pass/Fail. Class meetings on campus during the experience are arranged.

B 0829 414 IN-SERVICE SUPERVISED TEACHING I

4 sh

Replaces supervised student teaching for those employed in teaching situations without standard certification. Joint supervision by the school district and college personnel. Student must have permission of department chairperson and the school district.

Co-requisite: B 0829 402.

B 0829 415 IN-SERVICE SUPERVISED TEACHING II

4 sh

Continuation of In-Service Supervised Teaching I; the co-requisite seminar is replaced by a series of special in-service conferences included in the course. Not for graduate credit.

Prerequisite: 0829 414.

B 0829 420 INSTRUCTIONAL INNOVATIONS

3 sh

New ways of organizing students, staff, curriculum, time and space, as well as independent study, group dynamics, programmed instruction and student evaluation.

DIRECTORY

GRADUATE ADVISORS

	Office	Tele.
Anthropology: <i>Dr. Bertha B. Quintana</i>	Russ Hall 219	201-893-4119
Biology: <i>Dr. Larry Cribben</i>	Mallory 252J	5107
Business Administration: <i>Dr. Alan J. Oppenheim</i>	College High 206C	4282
Business Education: <i>Dr. Stephen Cyrus</i>	College Hall 302	4269
Chemistry: <i>Dr. Joseph F. Becker</i>	Math/Science 345	5136
Communication Sciences & Disorders		
Speech Pathology: <i>Dr. Elaine Barden</i>	Speech 112	4227
<i>Dr. Edward Shulman</i>	Speech 106	4227
<i>Dr. Gerald Woolf</i>	Speech 115	4226
Learning Disabilities: <i>Dr. Marilyn E. Gonyo</i>	Speech 119B	4231
Audiology/Hard of Hearing & Deaf :		
<i>Dr. Michael Lindenman</i>	Speech 117	4226
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Curriculum and Teaching (M.A.T.) : <i>Dr. Susie B. Boyce</i>	Chapin 214	5192
Distributive Education: <i>Dr. Joseph C. Hecht</i>	College Hall 300	4272
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<i>Dr. Maria Schantz</i>	College Hall 105	4247
English and Comparative Literature : <i>Dr. James Nash</i>	Partridge 458	5135
Environmental, Urban & Geog. Stud.		
Geography: <i>Prof. Bertrand P. Boucher</i>	Russ 308	5258
Environmental Studies: <i>Dr. W. Augustus Rentsch</i>	Russ 122	4188
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Human Sexuality: <i>Dr. Katherine Ellison</i>	Math/Science 371	4336
Emotionally & Socially Disturbed : <i>Dr. Walter R. Duryea</i>	Russ 232	4134
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Speech and Theater: <i>Dr. Gerald L. Ratliff</i>	Life 00B	4313

CHAIRPERSONS

	Office	Tele.
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Anthropology: <i>Dr. Bertha A. Quintana</i>	Russ Hall 219	4119
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Business Administration: <i>Dr. Alan J. Oppenheim</i>	College High 206A	4282
Business and Distributive Education: <i>Prof. of. Rosemary McCauley</i>	College Hall 302	4269
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Sociology: <i>Dr. Meredith B. McGuire</i>	Russ 405	5263
Spanish: <i>Dr. Norman Fulton</i>	Partridge 416	4285
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Graduate Dean/Assistant Dean

CAROL JEAN EHLERS

Graduate Advisor

STEPHEN D. DOBISH

Grants Administrator

ROBERT OGDEN

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HOW TO GET TO MONTCLAIR STATE COLLEGE

Location

Montclair State College is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The College is one mile south of the junction of Routes 3 and 46 on Valley Road.

Directions for Reaching the College

From **Bloomfield Avenue**, Montclair Center proceed north on Valley Road—two miles to the Normal Avenue light.

Heading **east on Route 46**, the landmark is Primrose Diner; take the next right, Valley Road—one mile to the light at Normal Avenue.

Heading **west on Route 46**, the landmark is the junction with Route 3. Turn on Valley Road to Montclair, bear right on clover-leaf and proceed south under Route 46—one mile to the light at Normal Avenue.

From the **Turnpike north of Exit 11** or **south of George Washington Bridge**, turn at Route 3 West or Route 46 West, then as above.

From the **Turnpike south of Exit 11**, leave the Turnpike at Exit 11 and follow directions for Garden State Parkway North.

Heading **north on the Garden State Parkway**, turn left at Exit 153B and proceed west on Route 3 to Valley Road.

Heading **south on the Garden State Parkway**, turn at Route 46 West (Clifton Exit 154) then to Valley Road. If you miss that turn, continue south to Exit 151, Watchung Avenue, then west to Valley Road and north to light at Normal Avenue.

The **No. 60 Public Service Bus**, from Newark to Montclair terminates at the southwest end of the campus.

The **No. 66 DeCamp Bus** from New York, which leaves on the half hour from Platform 73, Port Authority Bus Terminal, stops at Valley Road and Mt. Hebron Road—one long block from the campus.

Conrail, Montclair Heights Station, is at the southwest corner of the campus.

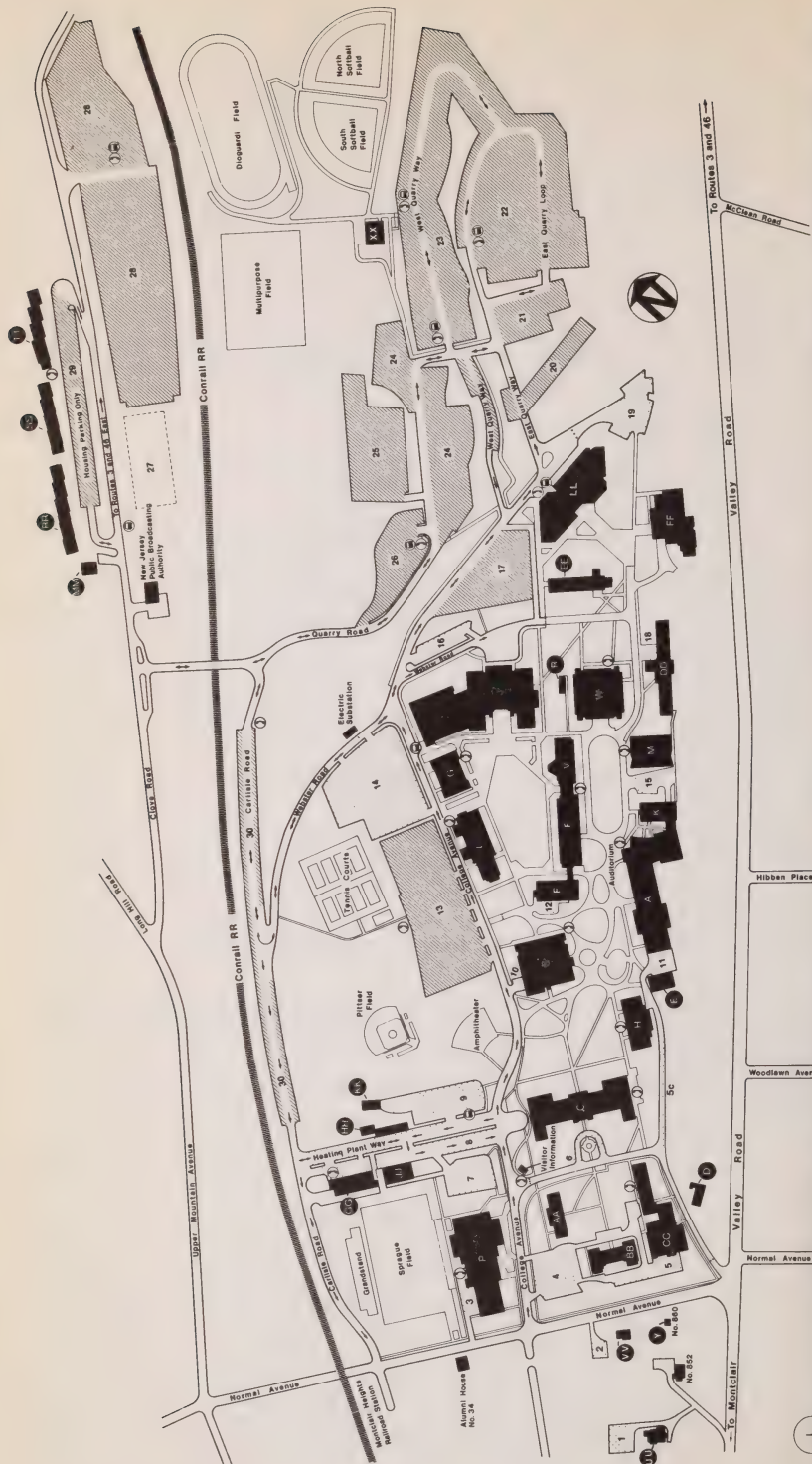
WHEN IN DOUBT
CALL
201-893-4000



MONTCLAIR STATE COLLEGE

UPPER MONTCLAIR N.J.

TELEPHONE 201-982-4000



PARKING

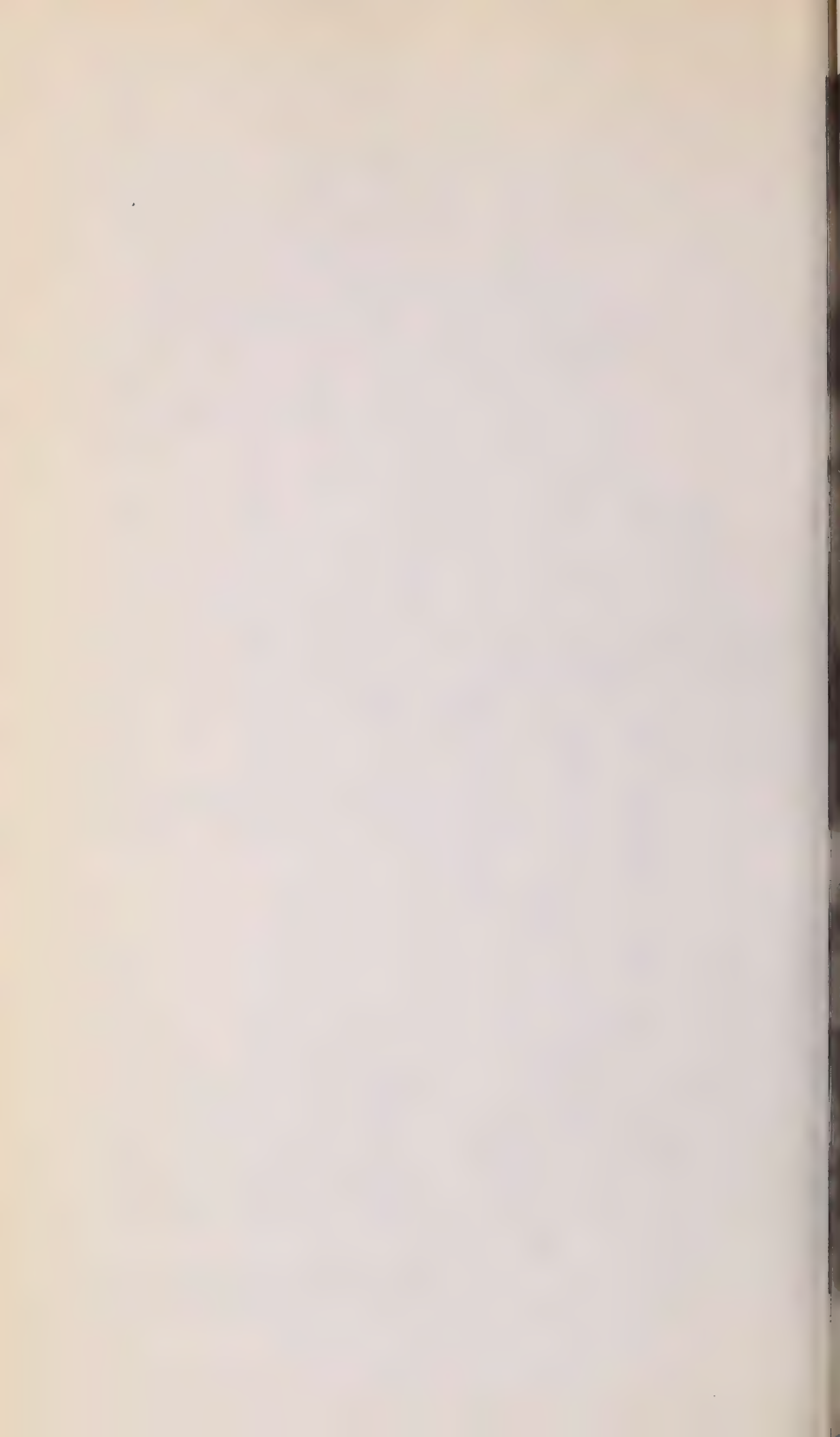
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<input type="checkbox"/>	11	FACULTY and STAFF	<input type="checkbox"/>	25	STUDENT			
<input type="checkbox"/>	12	INDUSTRIAL ARTS DEPT. FACULTY and STAFF	<input type="checkbox"/>	26	STUDENT			
<input type="checkbox"/>	13	STUDENT	<input type="checkbox"/>	27	STUDENT			
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SYMBOLS

	EMERGENCY PHONE
	SHUTTLE BUS STOP

BUILDINGS

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<input type="checkbox"/>	D	COLLEGE HALL - ADMINISTRATION & ADMISSIONS	<input type="checkbox"/>	Y	ADULT EDUCATION	<input type="checkbox"/>	SS	CLOVE RD. APTS. - 200 STUDENT HOUSING
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<input type="checkbox"/>	G	FINLEY HALL	<input type="checkbox"/>	CC	FREEMAN HALL - STUDENT HOUSING	<input type="checkbox"/>	VV	ADULT EDUCATION ANNEX
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<input type="checkbox"/>	K	STUDENT CENTER	<input type="checkbox"/>	FF	BOHN HALL - STUDENT HOUSING			
<input type="checkbox"/>	L	SPEECH BUILDING	<input type="checkbox"/>	GG	MAINTENANCE BUILDING			
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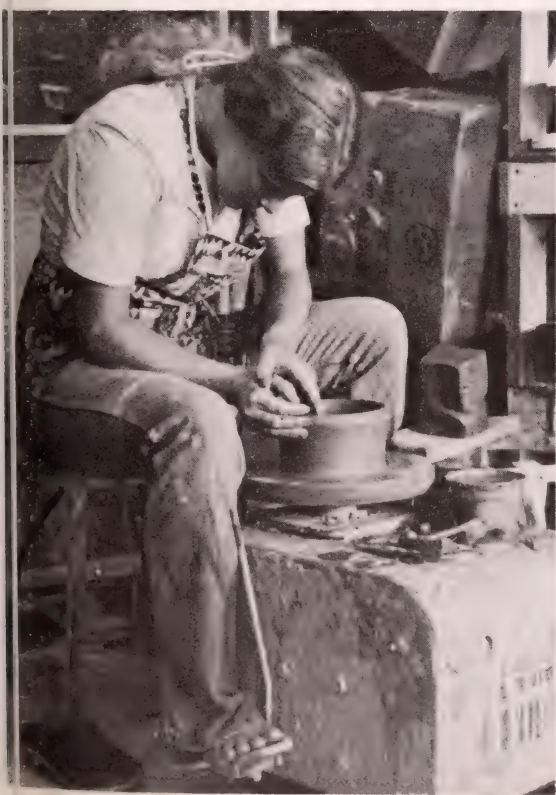
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Montclair State College

Upper Montclair, NJ 07043

Graduate Catalog
1983-1985

EQUAL OPPORTUNITY STATEMENT

Montclair State College is an equal opportunity/affirmative action institution and does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities.

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action in College Hall.

The Graduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change its announcements, regulations or requirements at any time without notice or obligation whenever such action is deemed appropriate and necessary.

**OFFICE OF PUBLICATIONS
MONTCLAIR STATE COLLEGE BULLETIN**





Montclair
State
College

UPPER MONTCLAIR, NJ 07043

Graduate Catalog 1983-1985

GRADUATE STUDIES OFFICE TELEPHONE
(201) 893-5147

FAILURE TO READ THIS PUBLICATION DOES NOT EXCUSE
STUDENTS FROM THE REQUIREMENTS AND
REGULATIONS DESCRIBED HEREIN.

ACADEMIC CALENDAR 1983-85

FALL SEMESTER 1983

August 29, 30, 31	Registration/Orientation
August 29, 30	Evening Registration
September 1	Classes Begin
September 1, 2	Classes. Classes will meet until the regular close of the course day, Sept. 2
September 3, 4, 5	No classes. Labor Day Holiday
September 6-November 23	Classes. Classes will meet until the regular close of the course day, Nov. 23
November 24-27	Thanksgiving Holiday
November 28-December 16	Classes
December 17-23	Examination Period
December 24-January 2	Christmas Holiday

WINTER SESSION 1984

December 28	Late Registration
January 3-20	Classes

SPRING SEMESTER 1984

January 17, 18, 19	Registration/Orientation
January 17, 18	Evening Registration. If the college is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
January 23-April 15	Classes
April 16-22	Spring Recess
April 23-May 14	Classes
May 15-21	Examination Period
May 23	Commencement

SUMMER SESSIONS 1984

May 29-June 8	Pre-Session Classes
June 4, 5	Registration
June 11-August 2	Eight-Week Evening Classes
June 25-August 3	Six-Week Day Classes
July 4	Holiday—No Classes
August 6-17	Post-Session Classes

FALL SEMESTER 1984

August 27, 28, 29	Registration/Orientation
August 27, 28	Evening Registration
September 1, 2, 3	No classes. Labor Day Holiday
September 4	Classes Begin
September 4-November 21	Classes. Classes will meet until the regular close of the course day, November 21.
November 22-25	Thanksgiving Holiday
November 26-December 16	Classes
December 17-23	Examination Period
December 24-January 1	Christmas Holiday

WINTER SESSION 1985

December 27	Late Registration
January 2-18 (classes Sat., Jan. 5 and Jan. 12)	Classes

SPRING SEMESTER 1985

January 14, 16, 17	Registration/Orientation
January 14, 16	Evening Registration. If the college is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.
January 21-March 31	Classes
April 1-7	Spring Recess
April 8-May 15	Classes
May 16-22	Examination Period
May 23	Commencement

**THE COLLEGE RESERVES THE RIGHT TO MODIFY THIS
CALENDAR.**

MASTER OF ARTS DEGREES OFFERED**

Administration and Supervision

*Educator Trainer (Training Personnel)

Supervisor/Principal Certification

Biology

Business Education

Chemistry

Communication Sciences and Disorders

*Audiology

*Early Childhood Special Education

*Hard of Hearing and Deaf

*Learning Disabilities

*Speech-Language Pathology

Computer Science

Counseling and Guidance

*Human Services

Educational Psychology

*Behaviorally Disturbed

*Human Sexuality

English and Comparative Literature

Environmental Studies

*Environmental Education

*Environmental Health

*Environmental Management

*Environmental Science

Fine Arts

*Art History

*Fine Arts Education

*Studio

*Visual Arts

French

Geoscience

Health Education

Home Economics

*Family Relations/Child Development

*Home Economics Education

*Home Management/Consumer Economics

Industrial Education and Technology

Mathematics

- *Computer Science
- *Mathematics Education
- *Pure and Applied Mathematics
- *Statistics

Music

- *Music Education
- *Performance
- *Theory Composition

Physical Education

Psychology

- *Industrial and Organizational Psychology

Reading

Social Sciences

- *Anthropology
- *Economics
- *Geography
- *History
- *Political Science
- *Sociology
- *Urban Studies

Spanish

Speech and Theater

- *Public Media Arts (Broadcasting)
- *Speech and Theater Education
- *Technical Theater, Acting and Directing

Teaching

- *Initial Certification
- *Middle School Philosophy

- *Area of Concentration

**Please refer to the index for page numbers on specific programs

MASTER OF BUSINESS ADMINISTRATION**

Business Administration

- *Accounting
- *Business Economics
- *Finance
- *Management
- *Marketing
- *Quantitative Analysis

- *Area of Concentration

**Please refer to the index for page numbers on specific programs

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GENERAL INFORMATION

Montclair State College was established in 1908 and is a coeducational college of liberal arts, sciences, pre-professional and professional programs. The first Master of Arts degrees were awarded in 1933. Along with quality academic programs, it offers extensive cultural and athletic opportunities. There are 475 full-time faculty, 79% of whom have doctoral degrees or other appropriate terminal degrees. Montclair State College has been designated as a center of influence for the Fine and Performing Arts in Northern New Jersey. As an equal opportunity institution, Montclair State College seeks applications from all qualified students regardless of race, creed, national origin, or sex.

ACCREDITATION

The College is fully accredited by the Middle States Association of Colleges and Secondary Schools. In addition, the National Council for the Accreditation of Teacher Education has granted the College full accreditation for the preparation of secondary school teachers and selected school services personnel.

The Department of Chemistry in the School of Mathematical and Natural Sciences is accredited by the American Chemical Society. The Department of Music in the School of Fine and Performing Arts is accredited by the National Association of Schools of Music.

MEMBERSHIPS

The College is a member of the Council of Graduate Schools in the United States, the Northeastern Association of Graduate Schools, the American Association of State Colleges and Universities, the American Council of Education, the New Jersey Association of Colleges and Universities, the New Jersey and the American Associations of Colleges for Teacher Education and the American Assembly of Collegiate Schools of Business. Women graduates of the College are eligible for membership in the American Association of University Women.

FUNCTIONS

Montclair State College serves three broad functions: instruction, research and service.

Instruction: The College offers graduate programs for the preparation of professional personnel in the areas of administration, biology, business education, chemistry, geoscience, audiology, art, computer science, counseling and guidance, educational psychology, environmental studies (education, management, science), learning disabilities, health, home

economics, industrial arts, mathematics, music, physical education, psychology, reading, special education, speech pathology, speech and theater arts, among others. It is possible also to obtain traditional advanced liberal arts training in English and comparative literature, French, Spanish and the social sciences. Continuing education both on and off campus for other than degree purposes is also part of the function.

Research: Research and scholarship by the faculty and staff are encouraged by the College to constantly add to the knowledge on which degree programs are based, and to contribute to the general advancement of human knowledge.

Service: The service function involves consultancies to business, education and governmental agencies. Included also are such activities as sponsored workshops, publications, surveys and research, and participation as committee members and officers in appropriate local, state and national organizations.

ACADEMIC ORGANIZATION

Montclair State College's academic organization includes five schools. Courses are offered through the Schools of Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies.

General policy governing graduate education at Montclair State College is determined by the Graduate Council, composed of graduate faculty members and a graduate student from each school, two academic deans elected by the Dean's Council and the Director of Library Services.

SCHOOL OF BUSINESS ADMINISTRATION

Dean: Suresh A. Desai, Ph.D.

Associate Dean: Michael A. Puglisi, M.B.A.

The School of Business Administration offers graduate programs across a wide spectrum of business- and economics-related subject areas. The School's graduate offerings are:

Master of Business Administration

Master of Arts in Business Education

Economics Concentration in Master of Arts in Social Sciences

Each program incorporates a creative blend of theory, data and applied reasoning.

The M.B.A. program is interdisciplinary in nature and is designed primarily for part-time students with liberal arts, scientific, or professional backgrounds. Prior work experience is not required, but is strongly recommended for all applicants.

The curriculum stresses the essential fundamentals of management disciplines, as well as practical applications of research findings and

current managerial practices. The Montclair M.B.A. is structured so that management education remains relevant and flexible yet is sufficiently based on theory in order to provide a foundation for subsequent professional growth.

The MA in business education prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education.

The MA in Social Sciences (Economics concentration) develops competency in the economic analysis of specialized fields without undue emphasis on theory and quantitative methodology, thereby enabling them to participate more effectively in the formulation, evaluation, and implementation of public policies.

Small classes, taught by a distinguished and qualified faculty, provide ample opportunity for intellectual growth and dynamic interaction.

Departments and programs within the School are:

Accounting, Law & Taxation

Accounting*

Business Education and Office Systems Administration

Program in Business Education

Economics

Economics Concentration in Social Sciences MA Program

Business Economics Concentration in MBA Program

Finance & Quantitative Methods

Finance*

Quantitative Analysis*

Management*

Marketing*

**Denotes Area of Concentration*

SCHOOL OF FINE AND PERFORMING ARTS

Dean: Donald Mintz, Ph.D.

Director, Cultural Programming: Harry R. Rosenzweig

The School of Fine and Performing Arts, designated a "comprehensive center of influence in the creative and performing arts" by the Board of Higher Education, offers Masters' degrees in most of its several disciplines. Separately and together, the departments offer courses that recognize significant contemporary developments like the increased role of technology in artistic enterprise, the growth of film and television as artistic media, the tendency to blur the boundaries between conventional artistic disciplines, and the serious challenges to traditional notions of what art is.

Departments and programs within the School are:

Fine Arts

Art History*

Fine Arts Education*

Studio*

Visual Arts*

- Music
 - Music Education*
 - Performance*
 - Theory Composition*
- Speech & Theater
 - Public Media Arts (Broadcasting)*
 - Speech/Theater Education*
 - Technical Theater, Acting and Directing*

**Area of Concentration*

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Dean: Philip S. Cohen, Ph.D.

Graduate programs in the School of Humanities and Social Sciences are designed to accomplish four objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of its major areas of instruction.
2. To acquaint the student with the inter-relatedness of the various fields within the Humanities and Social Sciences as well as their relationship to other disciplines.
3. To familiarize students with the particular methodology and problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

The School of Humanities and Social Sciences comprises a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in these areas whether he or she is teaching or working in government, industry or the professions.

The departments within the School of Humanities and Social Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects.

All of the programs provide excellent preparation for those wishing to go on to more advanced degrees.

Departments and programs within the School are:

- Anthropology
- Social Sciences*
- Communication Sciences & Disorders
- Communication Sciences & Disorders
- Audiology*
- Early Childhood Special Education*

- Hard of Hearing and Deaf*
- Learning Disabilities*
- Speech-Language Pathology*
- Economics
 - Social Sciences*
- English
 - English & Comparative Literature*
- Environmental, Urban & Geographic Studies
 - Program in Environmental Studies
 - Environmental Education*
 - Environmental Health*
 - Environmental Management*
 - Environmental Science*
 - Program in Social Sciences
 - Geography*
 - Urban Studies*
- French
- History
 - *Social Sciences (students may also obtain a Social Science degree with a concentration in Non-Western Culture)
- Political Science
 - Social Sciences*
- Psychology
 - Program in Educational Psychology
 - Behaviorally Disturbed*
 - Human Sexuality*
 - Program in Psychology
 - Industrial & Organizational Psychology*
- Sociology
 - Social Sciences*
- Spanish/Italian
 - Spanish*

**Denotes Area of Concentration*

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Dean: Richard A. Lynde, Ph.D.

The Graduate Programs offered within the School of Mathematical and Natural Sciences are designed to provide specialization and depth of knowledge significantly beyond that provided in our undergraduate programs. The programs are flexible enough to meet the needs of individuals in Business/Industry and secondary instruction as well as those intending to continue their studies in Ph.D. programs or professional schools.

The high density of technically oriented Business/Industry in the North Jersey area provides the school with unique resources and opportunities for study and research at the graduate level as well as employment opportunities for graduates of our programs.

Departments and programs within the School are:

- Biology
- Chemistry
- Geoscience
- Mathematics and Computer Science
 - Program in Computer Science
 - Program in Mathematics
 - Computer Science*
 - Mathematics Education*
 - Pure and Applied*
 - Statistics*

**Area of Concentration*

SCHOOL OF PROFESSIONAL STUDIES

Dean: Nicholas M. Michelli, Ed.D

The School of Professional Studies includes eight departments, each of which offers the Master of Arts degree in a variety of fields leading to and strengthening skills needed for professional careers in private industry, government agencies, non-profit organizations, and public and non-public schools.

The School has responsibility for coordinating the non-degree post baccalaureate teacher certification program. A Master of Arts in Teaching program is also available to those seeking initial certification. The School has a commitment to offering graduate programs to urban school personnel through the Newark Teacher Center and Project THISTLE.

Arrangements can be made to offer graduate programs to employees of public schools and other organizations on site.

In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments and programs within the School are:

- Counseling, Human Services and Guidance
 - Counseling and Guidance
 - Human Services*
- Curriculum and Teaching
 - M.A.T.
 - Middle School Philosophy*
- Post-B.A. Certification
- Educational Foundations
- Educational Leadership
 - Administration and Supervision
 - Educator Trainer Program (Training Personnel)*

Reading
Certification Programs for: Media Specialist, Principal,
Supervisor, Reading Specialist

Health Professions
Health Education

Home Economics
Family Relations/Child Development*
Home Economics Education*
Home Management/Consumer Economics*

Industrial Studies
Industrial Education and Technology

Physical Education, Recreation and Leisure Studies
Physical Education

**Area of Concentration*

ACADEMIC FACILITIES

The College is located on a 220-acre campus in Upper Montclair, New Jersey, 14 miles west of New York City. In addition to classrooms and studios, our facilities provide two modern theaters; a recital hall; a theater arts workshop; science and language laboratories; foods laboratories; clothing laboratory in Home Economics; auto and power, energy, metals, and plastics laboratories in Industrial Studies; human performance laboratory in Panzer and on-campus housing for approximately 2,000 men and women.

COMPUTER CENTER

The Computer Center provides a wide variety of services to the College Community through the operation of 2 major facilities. The College Hall location provides services through a Burroughs B1955 computer, and the Richardson Hall location provides services through a DATA100 Remote Job Entry Station and various time sharing terminals. Both locations are connected through high speed communications facilities to the New Jersey Educational Computer Network where most of the actual computing is performed. NJECN, a corporation owned by the State Colleges of New Jersey, provides an extensive array of computer services through the operation of an IBM 370/168, and an IBM 3033.

CURRICULUM RESOURCE CENTER

The Curriculum Resource Center, located in Chapin Hall, is a collection of materials for use by teachers, curriculum committees and others engaged in planning educational programs. The Center's collection includes textbooks, curriculum guides from New Jersey schools and schools across the nation, learning activity packages, and professional books. The Center maintains evening hours for the convenience of graduate students and teachers. For further information, contact the Director at 893-5220.

LABORATORY FACILITIES

Extensive well-equipped laboratories support both instruction and research in the Mathematical and Natural Sciences. Specialized facilities and equipment provide opportunities for significant thesis research in a number of areas of current interest.

The necessary studios, workshops, exhibition spaces, performance, practice and rehearsal facilities support the instruction areas in the School of Fine and Performing Arts.

A modern language laboratory serves the needs of students who seek to improve their language skills.

Appropriate facilities are also available for students enrolled in the Experimental Psychology course.

LIBRARY

The Harry A. Sprague Library invites all students and faculty to make full use of its many services. An informed and helpful staff of professional librarians is ready to aid with research needs and to assist in the use of the Library's various comprehensive collections. Aside from the fine reference and circulating book collections, the Library is a depository for United States and New Jersey government publications, has extensive holdings of periodicals and newspapers and owns a sizable collection of audio and video cassettes, filmstrips and records, and other non-print media.

Materials not owned by the Library can often be obtained through the Inter-Library Loan Service of the Reference Department, or through the consortia of which the Library is a member. An on-line catalog permits access to information on the holdings of all the ten senior N.J. State College libraries. Bibliographic data base searches are available through the Reference Department.

The Library has acquired the necessary equipment for viewing and listening to its non-print materials. It also has readers and reader/printers to accommodate the various materials in microfilm. Other facilities include carrels, a smoking lounge, copy machines and public telephones.

MARINE SCIENCES CONSORTIUM

The facilities of the New Jersey Marine Sciences Consortium, including the field stations of Sandy Hook and Seaville, are available to Montclair State students. The Consortium generally sponsors an extensive summer program of regular and independent study courses in the marine sciences at the graduate level.

MEDIA CENTER

The Center provides audio-visual materials, equipment and services for use by faculty and students for classroom instruction and presentation.

Video taping equipment is available for use by faculty and staff, as is a closed circuit television studio with complementary equipment. Custom graphic and photographic production services exist that include slide copy, slide duplication, transparency production and graphic design. The staff of the Center is available for consultation on audio-visual problems, for demonstration of audio-visual materials and methods, and for special teaching and training in the area of audio-visual education.

PSYCHOEDUCATIONAL CENTER

The Center has been designed to train graduate students in the areas of audiology, special education, learning disabilities, school psychology and speech language pathology. It additionally serves the community by offering programs that suit the mutual needs of students and clients.

SPECIAL EDUCATION

The following academic courses of study at Montclair State College prepare graduate students to work with individuals who are experiencing difficulty with communication, learning or life adjustment: Audiology, Counseling and Social Work, Early Childhood Special Education, Learning Disabilities, Physical Education for the Disabled, Reading, School Psychology, Speech Pathology, Teacher of the Handicapped, Teacher of the Behaviorally Disturbed and Therapeutic Recreation. Consult the index for details about individual programs.

Students enrolled in these courses of study may receive part of their training on campus at the Psychoeducational Center. The Center operates an assessment component, Communication Disorders Clinic, Communication Disorders Demonstration Program and the Parent/Infant Program.

ADMISSION AND MATRICULATION

To be admitted to graduate study at Montclair State College, an applicant must have a baccalaureate degree from an accredited college or university in the United States, or its equivalent from a foreign institution of higher education. An applicant must also have an appropriate academic background for the program or degree desired. To be matriculated in a particular degree program, the applicant must be accepted by the department offering that program.

Applicants are evaluated on several criteria (e.g., grade point average, national test scores, recommendations, interviews, essays, portfolios, auditions, etc.) to enable the College to identify those students who demonstrate the greatest promise of scholarly achievement and ability to benefit from their proposed program of study.

Application: All students who wish to be fully matriculated in a graduate degree program at the time of initial registration must apply at least three months in advance. Applications and instructions for submission of supporting credentials may be obtained from the Office of Admissions/Graduate or from the Graduate Studies Office. The completed application must be sent to the Admissions Office/Graduate with a non-refundable fee of \$10.

Application Deadlines: Applications should be on file in the Admissions Office by July 1 for fall admission, by November 1 for admission the following spring semester, and by April 1 for admission in the summer session.

Students who miss the application deadline may upon presentation of evidence of a bachelor's degree in the Admissions Office be allowed to register for one semester. To continue to take course work a formal application must be filed by the appropriate deadline. Failure to submit an application will result in not being allowed to register in the future.

GENERAL REQUIREMENTS

Transcript: Two copies of an official transcript must be submitted from each college and university attended.

Graduate Record Examination (GRE): The GRE aptitude test is required of all students applying for admission to a degree program; some departments also require the GRE advanced test in the applicant's proposed field of study and/or the Miller Analogies Test. Students should check the department statement in this Bulletin for specific requirements.

Students should make arrangements to have an official notification of their GRE test scores sent directly to the Office of Admissions/Graduate. Since it generally takes about six weeks for test scores to reach the college, students are advised to take the required test as soon as possible after applying for admission. Information about the GRE may be obtained from the Educational Testing Service, Princeton, New Jersey 08540, or from the Office of Graduate Studies at Montclair State College.

Recommendations: Recommendations from at least two persons who are qualified to evaluate the applicant's promise of academic achievement are required for admission to all degree programs.

Statement of Objective: All students applying for admission are asked to provide a statement outlining their goals and purposes in the graduate study they wish to pursue.

Teaching Certificate: A copy of an applicant's teaching certificate(s) is required of all students seeking admission to a program leading to advanced certification or certification in an additional field.

Acceptance Procedure: Final action on an application cannot be taken until all supporting credentials have been received in the Office of Admissions/Graduate. However, applicants whose transcript shows confer-

ment of a bachelor's degree will be given permission to register on a non-degree basis.

Applicants who meet the College minimum standards for admission will be advised by letter to arrange a conference with the graduate advisor of the department in which the student wishes to study. The department advisor will evaluate the student's qualifications for acceptance into the program.

Matriculation: Students who are accepted into a degree program will be formally matriculated and given an official work program developed in conference with the graduate advisor. The student will receive official notification of matriculation from the Office of Graduate Studies.

Deferred Matriculation: Applicants with marginal qualifications or inadequate preparation may, upon recommendation of the department, be admitted to study on a conditional basis (deferred matriculation) with the understanding that eligibility for matriculation will be established in a manner prescribed by the department in which the student wishes to matriculate. Course work and other study undertaken to remedy the deficiency or to demonstrate the ability to do graduate-level work may be in addition to the regular program requirements.

Non-Degree Students: Individuals who have a baccalaureate degree and want to enroll in particular courses to satisfy personal interests without reference to matriculation in any degree or certification program may apply for admission as a non-degree student. Applications for this status do not require the supporting credentials specified above for degree programs, except for the transcript showing possession of a bachelor's degree and the statement of objectives.

Admission on a non-degree basis does not imply acceptance in or eligibility for matriculation in any degree.

Admission of Veterans: Veterans seeking admission to a graduate program should apply to the Veterans Administration for a certificate of eligibility and entitlement well in advance of the registration date. These forms may be obtained at the Veterans Office located in Annex E, Room 10.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes important that the veteran clearly state his educational objectives on all appropriate forms.

To insure that his application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor.

Foreign Applicants: Foreign applicants should obtain an application from the Office of Admissions, and return the completed form to the office at least one month prior to the normal deadline.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants, for whom English is not a native language, to take the Test of English as a Foreign Language, administered world-wide by the Educa-

tional Testing Service of Princeton, New Jersey. Scores from this test should reach the Office of Admissions/Graduate no later than the normal deadline.

Qualified Seniors: Montclair State College undergraduates with an academic average of at least 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work at the 500 level, if prior permission is granted.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Graduate Studies Office. Qualified undergraduates taking graduate courses for graduate credit must pay appropriate fees and tuition at the regular graduate student rates. Admission of an undergraduate to courses at the graduate level does not imply future acceptance into a graduate degree program.

Visiting Students: Graduate students matriculated at another college may register for courses during In-Person Registration. They must bring with them a form or letter of permission from the institution they are attending stating they are students in good standing.

ACADEMIC POLICIES AND REGULATIONS

Course Load: Nine semester hours constitute a full-time course load. It is recommended that a student who is fully employed take no more than six semester hours of course work in any one semester.

Course Numbering and Scheduling: Selected courses numbered from 400 through 499 are senior-graduate courses. They may be taken for graduate credit only with the permission of the Graduate Advisor in the student's major department and only to the extent approved by regulations governing Graduate Studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be numbered from 400 through 499. Courses numbered below 400 are not acceptable for graduate credit.

Courses numbered 500 and above are open only to graduate students. They are scheduled in the late afternoon and evening during the fall and spring semesters. Summer session graduate courses are scheduled both in the day and evening.

Restrictions for Graduate Credit: No credit is granted toward the Master of Arts degree for certain 400 level courses which are required for initial certification.

Courses taken ten or more years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree, except upon recommendation by the major department and approval of the appropriate School Dean.

No more than six semester hours of credit may be allowed for courses

completed at Montclair State College prior to matriculation for the Master's degree, except in specially designated programs.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the appropriate School Dean. A form for this purpose is available in the Graduate Studies Office and should be completed well before the transfer credit is needed.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that no course undertaken for graduate credit duplicates a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title.

Transfer Credit: A student may transfer six semester hours of graduate credit previously earned at an accredited college or university toward the Master of Arts degree at Montclair State College, provided the student obtains approval from the departmental Graduate Advisor at the time of admission. This approval must be noted on the student's work program. Grades below B are not accepted for transfer credit, nor are courses below graduate level in the originating institution.

Time Limit: Requirements for the Master of Arts degree must be completed within six years from the date of matriculation unless the appropriate School Dean approves an extension. Written applications for extension will be reviewed and evaluated by the appropriate School Dean on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of application.

Grades and Standards: There are eight grades used at Montclair State College:

A—Excellent	F—Failure
B—Good	IN—Incomplete
C—Fair	WD—Withdraw
D—Poor	NC—No Credit

No graduate credit is allowed for courses completed with grades below C. In order to qualify for the Master of Arts degree a student must present a grade point average of 3.00(B). Students may repeat a grade of D or F with written approval of the appropriate School Dean.

The grade of F signifies: (1) academic failure, (2) failure of the student to submit written notice of withdrawal, or (3) withdrawal after the midpoint in the semester. The mark WD is given to those who submit in writing to the Office of the Registrar their intention of withdrawing from a course before the midpoint of the semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

Any matriculated student whose grades fall below the required B average will be placed on academic probation and will be given one semester, within one year from date of first notification of probationary status, to achieve the required average. Failure to obtain the required average within the prescribed period of time leads to final review which may result in the termination of matriculated status. Notice of such action will be sent to the student by the Graduate Studies Office after consultation with the departmental graduate advisor. A student may appeal such action in writing to the appropriate School Dean.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

Registration Procedure: All graduate students who were registered at Montclair State College during a semester will receive registration materials allowing them to register for the following semester by mail. New students who apply after the cut-off date for mail registration, or students not registered in the previous semester, must register in person.

Details about registration procedures, regulations and deadlines may be obtained from the Office of the Registrar, or from the Schedule of Courses book.

GRADUATION REQUIREMENTS

Program of Study: A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be required to satisfy prerequisites or special programmatic purposes.

Each student must pass a comprehensive examination in his/her field, either oral or written, or both.

Candidates are also required to demonstrate their ability to execute and report on an independent research project or other creative production. This requirement may be satisfied in one of several ways: (1) a project report written in connection with a required departmental seminar, (2) a Master's Thesis, or (3) the production of a creative project in the fine and performing arts or humanities. The option selected must have departmental approval.

A department may accept the Master's thesis as equivalent to a required seminar and/or in lieu of all or part of the comprehensive examination.

Thesis: Those interested in writing a thesis must obtain the MSC Thesis Guidelines from the Graduate Studies Office or their major department, and consult the graduate advisor before beginning any part of the process. Students are responsible for following these guidelines in selecting an advisor and a topic, registering, completing and typing the thesis, defending and applying for graduation. Form A—Approval for Writing a Master's Thesis must be signed by all parties concerned and the appropriate section

turned in at the initial registration for thesis. THERE WILL BE NO REGISTRATION FOR THESIS OR THESIS EXTENSION WITHOUT WRITTEN PERMISSION.

Comprehensive Examination: The comprehensive examination is open only to matriculated students and is usually administered once in October and once in March. Students should check with their departmental graduate advisor to determine the date and time of the examination.

It is the student's responsibility to file the "Notification for Comprehensive Examination" form with the Graduate Studies Office and the appropriate department at the beginning of the semester the examination is to take place. The form is available in the Graduate Studies Office.

Students who fail the departmental comprehensive examination are allowed to retake it twice but must reapply each time as described above.

Application for Final Evaluation: Individuals anticipating completion of their degree and/or post-baccalaureate certification requirements must apply to have their eligibility for the conferment of the degree or certificate evaluated by the Office of the Registrar. The application form is obtained in the Registrar's Office; it must be completed and returned by March 1 for August conferment, by June 1 for January conferment, and by October 1 for June conferment.

Students must complete all requirements (incompletes, comprehensive examinations, thesis, required courses and electives, etc.) for the degree by the appropriate graduation date (i.e., June 1, August 31, or January 31). If not completed, students must reapply for graduation the following semester.

Commencement and Diploma: Commencement exercises are held in the Spring semester of each year. However, students who meet the scholastic requirements for their degree and who have fulfilled all other obligations to the College may be awarded diplomas in August or in January. Nevertheless, participation in the commencement exercises is required unless a written request for conferment in absentia is approved by the Office of Graduate Studies. The Office of the Registrar will notify students when diplomas will be available.



TUITION AND FEES*

Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree, per semester hour of credit

(in state)	\$60.00
(out of state)	\$80.00

Fees (Non-refundable)

Student Building fee, paid each time a student registers, per semester hour	\$6.25
General Service fee, paid each time a student registers, per semester hour	\$1.50
Late registration fee, for all students who register after the regular registration period	\$15.00

Application Fee (Non-refundable)

Each application for admission must be accompanied by an application fee of

\$10.00

Transcript Fee (Non-refundable)

For each copy of a student's transcript \$2.00
Inquiries about procedures for requesting transcripts should be directed to the Registrar.

Payment Instructions

All checks should be made payable to: Montclair State College

Refunding of Tuition

Refunds are made under circumstances detailed below if a student officially withdraws from a class by filing a written notification with the Office of the Registrar.**

The following schedule of refunds has been established by the New Jersey state colleges:

Period of Withdrawal	Percent Refunded
During first week of course	100%
During first third of course	50%
After the first third until midpoint of course	None

The percentage of refund is based on the total obligation. Tuition and service charges are refunded in full if classes are discontinued by the College.

In computing refunds, the date of withdrawal is the date on which the written notice of withdrawal is received in the Office of the Registrar.

*Subject to change at any time by action of the New Jersey Board of Higher Education.

**Ordinarily a minimum of 8 weeks should be allowed.

THE SCHEDULE OF COURSES BOOK HAS THE CURRENT FEES FOR ANY GIVEN SEMESTER. FEES ARE SUBJECT TO CHANGE.



FINANCIAL AID

Several kinds of financial aids are available to graduate students who meet all entrance requirements. Some of these aids provide an opportunity for desirable professional experience as well. Conditions for assistantships, loans and other aids are subject to change.

Graduate Assistantships: Graduate Assistants are expected to contribute an average of 15 hours per week during a 10-month academic year covering September 1 to June 30th. They may be given teaching assignments or other duties which are directly associated with their department's educational responsibilities.

A stipend of \$3,000 plus waiver of all College-wide fees and tuition for all graduate level courses required to complete individual degree programs are included as part of the assistantship. During the academic year following the assistantship, tuition waiver and College-wide fee waiver are also included for the number of semesters equal to the number of semesters served as a Graduate Assistant. Graduate Assistants are defined as full-time students if registered for at least 6 semester hours. The Registrar is authorized to certify this full-time status. Therefore, Graduate Assistants may not accept full-time employment during the period of their assistantship and may not register for more than 12 s.h. per semester without written approval of the appropriate School Dean. For applications, contact the Graduate Studies Office.

Graduate Assistants must be either matriculated or eligible for matriculation into a graduate degree program at Montclair State College prior to their appointment.

Resident Assistantships: Opportunities are available for graduate students to work as resident interns or assistant managers in the College residence halls. Interns serve as directors of small residence halls for undergraduate students from June 15 to June 15 of the following year.

There is a monetary stipend plus room and board for the year. Tuition and College-wide fees are also waived for the year of internship and the following year. Applications are available in March—please contact the Housing Office, Room 401, Bohn Hall for information. Assistant managers serve in large dormitories under a Resident Director and supervise 6-8 undergraduate residence assistants. The stipend is approximately \$1,400 per year, plus room and board with extra pay for summer. Application deadline for assistant managers is January 31 of the year of the appointment. For information and applications, please apply to the Director of Housing.

Equal Opportunity Fund Grant & Assistantships (EOF): Residents of New Jersey who received undergraduate EOF grants, or who were qualified for EOF but did not attend undergraduate colleges with EOF programs, may apply for EOF grants and assistantships. Those interested should contact the Director of the EOF graduate program (201-893-4384).

The following programs are administered by the Office of Financial Aid. All inquiries should be directed to them at 893-4461.

New Jersey State Guaranteed Student Loan: Loans may be made by participating banking or savings and loan institutions and are guaranteed by the New Jersey Education Assistance Authority. A list of participants may be obtained from the Authority. The maximum amount of such loans is limited to \$5,000 annually for graduate students. There is no interest charged while attending MSC, but it is charged beginning six months after termination of attendance.

National Direct Student Loans: American citizens, legally resident aliens and those who have filed initial citizenship papers and are fulltime students at MSC are eligible to apply. The amount of the loan is determined by the availability of funds and the need of the students. Interest of 5% and repayment begin six months after the student ends full-time study. There is a forgiveness feature at present for teachers of the handicapped, teachers employed in low-income areas and Head Start Programs whose schools qualify.

Work-Study: Graduate students as well as undergraduates may apply for part-time jobs in the College at an hourly rate under the federal work-study program. Students must demonstrate financial need, and the hiring department must have sufficient funds.

✓ **International Student (Non-Resident Tuition Waiver):** A remission of non-residential tuition may be made to students from other countries who demonstrate financial need. Those interested should apply at least 60 days prior to the beginning of the semester a waiver is desired. Applications must be made each semester to the International Student advisor in the Dean of Student Affairs Office.

Part-time Employment: While jobs cannot be guaranteed, there are some opportunities for afterschool, weekend and vacation employment available through the Career Services Office, 893-5229.

✓ **Scholarship:** The Charles Bargerstock Memorial Scholarship, established in memory of the founder of the Career Services Office, offers a stipend of \$500 to a graduate student in Counseling, Human Services and Guidance who desires to become a competent career counselor and placement officer, and will work ten hours weekly in the office during the academic year. For information, contact the Career Services Office, 893-5229.

Veterans Benefits: Those who believe they qualify for veterans benefits should see the Veteran's Assistant located in Annex E, Room 10.

Note: GAPSFAFAS (Graduate and Professional School Financial Aids Service) financial information forms are used and available at the Montclair State College Financial Aids Office.

STUDENT SERVICES

Alumni Association: Graduates of MSC are members of the Alumni Association. Each year the Association's Executive Board and the Alumni Director plan a schedule of activities. The Association also sponsors student research projects and faculty research grants, and conducts fund-raising activities to support selected college projects. The Alumni House is at 34 Normal Avenue across from the College, 893-4141.

Bank: A branch of the Pilgrim State Bank is located on the ground floor of the Student Center.

Bookstore: Located on the ground floor of the Student Center, the Bookstore sells textbooks, paperbacks, greeting cards, clothing, office supplies and other items. Hours change each semester.

Career Services and Educational Placement: There are two offices at M.S.C. that assist students in developing careers. Educational Placement is described on page 244. Career Services (Student Center Annex) provides resource information and advice as well as seminars on job search and interview processes for students and alumni. Other services include career counseling, library materials, graduate school catalogs, newsletters, a credential service, on-campus recruitment and employment (full and part-time) referrals, 893-5194.

Counseling: The Office of Psychological Services, with a staff of trained psychologists, is available for students seeking professional assistance. Students will be given an initial interview and referred to community agencies as appropriate. The office is located in Gilbreth House, 893-5215.

The Drop-in Center provides peer counseling 24 hours a day, as well as round-the-clock referrals to on- and off-campus facilities. A policy of strict

confidentiality is observed. The Center is staffed by an average of 20 students who serve on a volunteer basis. This staff is trained in Rogerian creative-listening technique and is familiar with the many resource materials which the Center has accumulated during its seven years on campus. The Drop-in Center is located between the Student Center and Richardson Hall, 893-5271.

Cultural Opportunities: A number of significant series of cultural events add to the pleasantness and interest of life on the campus. The Department of Speech and Theater presents several plays each semester, and, in the spring, a major student dance concert. The Department of Fine Arts and the Office of Cultural Programming together operate a gallery whose exhibits are generally changed monthly. Distinguished artists visit the campus to talk about their work at the Art Department's Art Forum which takes place on most Thursday afternoons during the semester. The Music Department offers an extensive series of faculty and student concerts. The Office of Cultural Programming brings to the campus performers like Emelyn Williams and Alvin Alley.

During the summer, Summer Fun, the college's professional season stock company, offers six plays, each running one week.

Further Graduate Study: Students interested in attending a university for study toward a doctoral degree may find catalogs in Career Services (Student Center Annex) and the Graduate Studies Office (College Hall). The Graduate Studies Office also has national guidebooks on graduate programs, information on scholarships and GRE/GMAT/LSAT/MAT applications. Departmental advisors should also be contacted for information related to their specific discipline.

Health Services: A registered nurse is on duty 24 hours a day, Monday through Friday, in the College Health Center located in Blanton Hall. Emergency medical care is also available. Regular office hours are from 8 a.m. to 4 p.m. After 4 p.m. the office is open for emergencies only, 893-4361.

Housing: Limited on-campus housing at Clove Road apartments is available to graduate assistants. The Housing Office will provide students with handbooks, maps and names of listing agencies in the area; it also posts notices from home owners in the area who have rooms to rent. The Housing Office is located in Bohn Hall and is open daily from 8:30 a.m. to 4:30 p.m., 893-4155.

I.D.: Students, faculty and staff are required to have a College-issued photographic Identification Card. This card must be shown to withdraw books from the Library, to obtain access to the Student Center Rathskeller and to participate in various activities sponsored by the Student Government Association.

All students currently holding an I.D. card will receive a validation sticker with their class schedule and their tuition payment receipt each semester. New students will be informed about procedures for obtaining their I.D. card at registration.

Insurance: At low-cost, medical insurance is available to all students, whether full or part-time. Many courses that offer off-campus activity, such as practicum or internship (but not student teaching) require this (or other personal) coverage. Check with the department before registering to ascertain if coverage is needed. If needed or desired, arrangements can be made through the College Health Center, 893-4361.

Parking: The College maintains several parking lots for use by students. These are designated on all campus maps. The College assumes no responsibility for cars or their contents while parked on College property. Parking decals are required of everyone and are available in the Business Services Office in College Hall. Decals must be displayed on all cars parked on campus. Shuttle buses are available to bring people to and from parking lots and classroom buildings.

Students who fail to obey parking rules may receive either a municipal or College summons and possible towing.

Security and Safety: Assistance is provided by the Campus Police and Security Department in several ways: protection, information and advice. Emergency telephones (grey boxes with blue decals) are available around campus to use. In case of fire or life-threatening emergency, dial 4111. For other assistance, dial 5222.

Some of the services offered to students by the Campus Police and Security Department are: information on rape and crime prevention, services to motorists (keys locked in car, stalled or disabled vehicle), and temporary parking permits (emergencies, temporary use of replacement vehicle, guests on campus, temporary overnight or disabled parking).

Student Center and Dining Facilities: The Student Center contains the bookstore, candy shop, bank, information desk, game room, and dining facilities.

There are three dining options in the Center: The cafeteria; the Rathskeller which serves beer and wine as well as food; and the vending machines which provide sandwiches and cold snacks. A valid MSC student identification card is required for admission to the Rathskeller. The Student Center is open when classes are in session throughout the academic year. During examination time and over holidays, modified hours will be posted.

Transcripts: Those desiring transcripts should complete a written request on a form available from the Registrar's Office. A fee of \$2 per copy is payable in advance. If five or more copies are desired at the same time, the fee shall be \$10.

Women's Center: The Women's Center is located in the Student Center Annex. It provides individual and group counseling, workshops in various areas of concern to women and men, and a Wednesday noon discussion series. Women Helping Women, a group of students/staff/faculty trained as peer counselors, offer rap groups, red-tape unraveling sessions and counseling during the day and in the evening.

The Center contains a library and reference files open to all who can benefit from their use, 893-5106.



ADULT CONTINUING EDUCATION

Director: Mr. Ray J. Ast

The faculty and staff in Adult Continuing Education provides program services to students, volunteer groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey and the nation. The programs offer direct service to community adult education development efforts, training programs for industrial and institutional employee career mobility, adult basic education, English as a second language and high school completion programs, continuing education unit technical assistance, and selected contractual consultant and service assistance. The Department utilizes College and community resources in the development of programs serving older adults. Information dissemination of adult basic, secondary and continuing education, community education, and gerontological materials as well as resources is made available. Graduate credit courses are offered in adult and community education for individuals entering the field or seeking professional advancement. A specialization in adult education is also offered in conjunction with the Educational Leadership's Master of Art Program for Training Personnel. The College's Tuition Waiver for Senior Citizens Program is administered by the staff.

ADULT CONTINUING EDUCATION

Course Descriptions

1 0807 550 PHILOSOPHIC PERSPECTIVES: ADULT CONTINUING EDUCATION IN THE UNITED STATES 3 sh

An examination of selective philosophic assumptions as well as social/cultural/political influences affecting the formats/systems and processes underlying programs of continuing education for adults in the United States.

1 0807 551 HISTORIC PERSPECTIVES: THE DEVELOPMENT OF ADULT CONTINUING EDUCATION IN THE UNITED STATES 3 sh

An examination of the theories, forces and events affecting origins and developments of adult education formats and movements in the United States.

1 0807 552 COMMUNITY EDUCATION PROGRAM 3 sh
PLANNING AND DEVELOPMENT IN HUMAN
SERVICES

A course designed to provide experiences for the student to translate the social, physical, intellectual, and psychological patterns and needs of learners into learning objectives applicable to program development in a community. There will be a special focus on adult learners, but every level will be considered, curricular materials and techniques will be developed and applied to the individualized programs of the various community and educational agencies involved in human services.

1 0807 553 ADMINISTRATION AND SUPERVISION OF 3 sh
ADULT CONTINUING EDUCATION

Considers the various administrative and supervisory roles in directing programs in adult continuing education. Particular attention will be given to an analysis and application of the technical, human relation and conceptual skills of administration to problems identified in adult continuing education.

1 0807 555 TRAINING & DEVELOPMENT IN ADULT & 3 sh
COMMUNITY ORGANIZATIONS

Application of principles and processes of adult education to large and small organizations, public and private, as they relate to both personal and corporate objectives. Programs in government, the Armed Forces, business, industry, labor and religious organizations will be examined.

1 0807 556 ORGANIZATION AND DEVELOPMENT OF A 3 sh
COMMUNITY EDUCATION PROGRAM

Designed to develop an awareness of the community education concept and to provide skills and strategies for educational and community leaders in promoting and implementing community education.

1 0807 559 SEMINAR AND PRACTICUM IN ADULT AND 3 sh
COMMUNITY EDUCATION

This course will provide classroom as well as field experience to practitioners in adult continuing and community education working particularly with educationally disadvantaged adults.

Prerequisite: Consent of Instructor.

1 0807 580 COMMUNITY EDUCATION: SEMINAR AND 3 sh
INTERNSHIP

A seminar and internship designed to provide exceptional administrative and leadership experiences in community education to students selected to participate as interns at Montclair's Community Education Center.

Prerequisite: Permission from Director.

1 0807 581 COMMUNITY EDUCATION: INDEPENDENT STUDY 3 sh

This course is designed to provide to graduate students an opportunity to increase their professional competence through a community education research project developing from their own need or problem area. Custom-designed in consultation with the community education director, to bring an understanding and/or possible recommendations and solutions.

Prerequisite: Permission from Director.

1 0807 583 COMMUNITY EDUCATION: GRADUATE ORIENTATION PROGRAM 3 sh

To increase the student's professional competence, as a community educator, through the development of his/her knowledge and understanding of current practices in the field of community education.

Prerequisite: Permission from Director.

1 0807 584 SPECIAL ISSUES: ADULT CONTINUING, COMMUNITY EDUCATION, GERONTOLOGY 1-3 sh

For practitioners in gerontology, adult education & community education. A focus on cooperation, shared resources and funding for human services organizations. Workshop series specifically designed to examine theories & practices in field of adult continuing & community education. Expressed needs in the field are bases for topical selection and specific workshop designs.

1 0807 650 INTERDISCIPLINARY SEMINAR IN ADULT CONTINUING EDUCATION 3 sh

Problem areas considered include values, communications, personality, perception, and organization. With problems basic to adult continuing education as its focus, the seminar brings together in a systematic fashion the pertinent knowledge, learnings, and skills of appropriate related disciplines such as psychology, anthropology, economics, political science, sociology, and the humanities.

1 0807 651 INDEPENDENT STUDY IN ADULT CONTINUING EDUCATION 3 sh

Designed for individuals who in consultation with an advisor wish to undertake either an indepth analysis of a specific problem, or to design and implement a particular project in adult continuing education.

BIOLOGY

Department Chairperson: Dr. J. Michael McCormick

Graduate Advisor: Dr. Lawrence Cribben

The graduate programs in the biology department are designed to enable a student to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

Research facilities of the Biology Department are maintained in Mallory and Finley Halls and include specialized equipment for electron microscopy, botany, microbiology, immunology, aquatic biology, tissue culture, animal behavior and cell physiology. Additionally, the facilities at the New Jersey Marine Sciences Consortium, and other departments in the School of Math and Science, are available for cooperative graduate research. Faculty research interests include aquatic and terrestrial ecology, environmental toxicology, developmental biology, parasitology, entomology, immunology and cell physiology.

The Biology Department offers thesis and non-thesis students opportunity for graduate research under faculty supervision in selected areas of biology. Original research should not exceed 8 sh for thesis students and 4 sh for non-thesis students. A maximum of 2 sh will be given to the non-thesis student for research in biological literature. Students must complete a minimum of 26 sh in biology and a maximum of 6 sh in approved electives, completing a total of 32 sh in coursework.

ADMISSION REQUIREMENTS

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject matter of at least twenty-four semester hours in biology and have adequate preparation in college chemistry, mathematics and physics.

In cases where there has been a weak undergraduate program in the major and/or collateral fields, prerequisite courses, which will not count towards graduate credit, may be assigned.

The matriculation program for M.A. candidates is prepared in consultation with the Biology graduate advisor. Changes in the program can be made only with the written approval of the graduate advisor. It is the responsibility of the student to keep the advisor informed of progress in the program.

- I. Course Requirement
0401 0514 Graduate Seminar in Biology 1 sh
- II. Research Requirement
0401 0597 Research in Biological Literature 2 sh
or
0401 0600 Thesis Research in Biology 3-7 sh

- III. Electives Maximum 6 sh
(Prior approval of Graduate Advisor is necessary.)
- IV. Semester Hours Required in Biology 26 sh
- V. Comprehensive Examination
Non-thesis students will take a written examination upon completion of course work in the biology core areas of molecular biology, ecology, and physiology. Thesis students will give a research seminar related to their project and will defend their thesis.

Minimum: 32 semester hours

BIOLOGY

Course Descriptions

W 0401 510 THE TEACHING OF BIOLOGY IN SECONDARY SCHOOLS 3 sh

Seminar and research course designed for study of methods and practices being used in teaching of secondary school biology.

Prerequisite: 24 sh in biology.

W 0401 512 TOPICS IN MODERN GENETICS 3 sh

Seminar course, selected topics from current development in genetic research, including chromosome and gene fine structure, extra chromosomal genetic elements, genetic engineering and aspects of biomedical genetic research.

Prerequisites: Undergraduate course in genetics and undergraduate course in biochemistry.

W 0401 513 INSTRUMENTATION & TECHNIQUES FOR BIOLOGICAL SCIENCE 4 sh

This course is designed to acquaint students with modern analytical and research techniques in biology, including manometry, spectrophotometry, electrophoresis, chromatography, microbial batch growth and assay techniques, immunotechniques and evaluation of experimental design and data.

Prerequisite: Graduate matriculation or permission of instructor.

W 0401 514 GRADUATE SEMINAR IN BIOLOGY 1 sh

Through a series of seminars delivered by faculty and guests, students will survey a broad range of topics in modern biology, and be introduced to the variety of specializations represented within the department. Emphasis shall be placed on recent advances in diverse areas of biology.

Prerequisites: Matriculation for M.A. degree in biology or permission of instructor. Comprehensive examination for the master's degree in biology will be based on this course.

W 0401 515 RADIATION BIOLOGY 3 sh

The biologic effects of ionizing radiations.

Prerequisites: 24 credits of biology, one year of physics, organic chemistry I and II.

W 0401 516 BIOGEOGRAPHY 3 sh

Distribution of plants and animals of the world on continents and continental and oceanic islands and in various climatic zones.

Prerequisites: One year of botany, one year of zoology, including vertebrate zoology, and a course in physical geography.

W 0401 517 SYMBIOSIS 3 sh

A multidisciplinary study of interactions between dissimilar organisms which live in close association with each other, and the evolutionary implications of such symbioses.

Prerequisites: 24 sh in biology.

W 0401 520 PLANT PHYSIOLOGY 4 sh

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Water relations of plants, mineral nutrition, physiological significance of soil and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

Prerequisites: Organic chemistry, one year of botany.

W 0401 521 FIELD STUDIES OF FLOWER PLANTS 4 sh

The taxonomy, evolutionary trends and ecological adaptations of the gymnosperms and angiosperms. A variety of habitats will be visited and analyzed.

Prerequisites: One year botany and field experience in ecology.

W 0501 522 PLANT PATHOLOGY 3 sh

Causes, symptoms, and control of plant diseases.

Prerequisites: Microbiology, one year of botany.

W 0401 523 MYCOLOGY 3 sh

Identification, and classification of fungi.

Prerequisite: Microbiology, one year botany or permission of instructor.

W 0401 530 ANIMAL BEHAVIOR 4 sh

Patterns and mechanisms of behavioral adaptations to stimuli from the internal and external environments. Topics include concepts in psychobiology and sociobiology.

Prerequisite: One year of zoology.

- W 0401 531 MEDICAL PARASITOLOGY 4 sh**
The ecology, pathology and control of parasitic diseases of man.
- W 0401 532 INSECT ECOLOGY & BEHAVIOR 3 sh**
This course considers the relationship of insects to their environment, insect populations, and insect behavior.
Prerequisite: One year entomology.
- W 0401 541 COMPARATIVE ANATOMY OF THE VERTEBRATES 4 sh**
Ontogeny and morphology of representative taxa of the protochordates and chordates. (Not offered every year.)
Prerequisites: 0401 131 or 0401 440.
- W 0401 543 ADVANCES IN IMMUNOLOGY 3 sh**
To study in detail selected topics in immunology.
Prerequisites: 24 hrs in biology, immunology, and 8 hrs. of chemistry, or permission of the instructor.
- W 0401 544 COMPARATIVE ANIMAL PHYSIOLOGY 4 sh**
The physiological mechanisms involved in the varied responses of both vertebrates and invertebrates to critical fluctuations of their physico-chemical environment.
Prerequisites: Cell biology, general physiology, 1 year zoology and 24 hrs. in biology.
- W 0401 545 EXPERIMENTAL ENDOCRINOLOGY 4 sh**
A seminar and laboratory course in endocrinology in which the various endocrine glands will be surgically removed or chemically destroyed and the morphologic and physiologic effects measured and observed.
Prerequisites: 24 hrs. in biology, including endocrinology or human physiology, and 0401 513.
- W 0401 547 MOLECULAR BIOLOGY I 3 sh**
Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomoleculars, energy yielding and energy requiring processes and transfer of genetic information. Prerequisites: Cell biology, and one year organic chemistry.
- W 0401 548 MOLECULAR BIOLOGY II 4 sh**
Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring process and transfer genetic information. The laboratory will deal with up to date investigative procedures via selected experiments.
Prerequisites: W 0401 547.
- W 0401 549 TOPICS IN DEVELOPMENTAL BIOLOGY 3 sh**
Seminar in the regulation of developmental events, including both classical morphogenesis and recent advances using techniques of cell and molecular biology.
Prerequisites: Genetics and embryology.

W 0401 550 TOPICS IN MICROBIOLOGY 3 sh

Coverage of selected topics such as the evolution, ecology, metabolism, and genetics of both bacteria and viruses. Emphasis will be placed on practical applications of basic research in specific areas.

Prerequisites: General microbiology, organic chemistry, cell biology, also desirable-molecular biology and bacterial physiology.

W 0401 551 INTERMEDIARY METABOLISM I 2 sh

Discussion of interrelationships of catabolic and anabolic paths. Primary emphasis is placed on the metabolism of nucleic acids, carbohydrates, and proteins.

Prerequisite: Biochemistry or cell physiology.

W 0401 552 INTERMEDIARY METABOLISM II 2 sh

Biological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics. Primary emphasis is placed on the metabolism of lipids.

Prerequisites: W 0401 551 or permission of instructor; W 0401 551 crs. in similar field.

W 0401 553 MICROBIAL ECOLOGY 4 sh

Exploration of the essential role of microorganisms in the eco-system. Lecture, field trips and laboratory will demonstrate the ubiquitous and highly adaptive evolution of microorganisms, their inter-relationships and their profound influence on the bio-sphere.

Prerequisites: General botany, general chemistry, and elementary microbiology or mycology.

W 0401 570 ECOLOGY 3 sh

Basic ecological principles and concepts. Habitat approach to field exercises in fresh water and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem, problems in plant and animal biology.

Prerequisites: General botany, general zoology, and plant taxonomy or equivalent required for environmental studies degree.

W 0401 571 PHYSIOLOGICAL PLANT ECOLOGY 4 sh

The effects of soil, light, and water on plant growth. Toxic effects of metals and salinity are measured using growth chamber and greenhouse facilities.

Prerequisite: Principles of ecology or New Jersey flora.

W 0401 572 ECOLOGY OF THE ESTUARY 4 sh

Important biotic, chemical and physical parameters of New Jersey's estuaries. Evolution and successional trends of estuarine communities. Ecology of individual communities studied by field trips to Delaware Bay Shore and to some Atlantic Coast bays, marshes and offshore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisites: One year chemistry, general botany, and invertebrate zoology.

W 0401 573 BENTHIC ECOLOGY**4 sh**

Community structure, trophic dynamics, species diversity and distribution of bottom dwelling organisms in relationship to their environment; lectures, laboratory work and field investigations of the marine benthos. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisites: One year of chemistry, general botany, and invertebrate zoology.

W 0401 594 RESEARCH IN BIOLOGICAL LITERATURE**2 sh**

To allow the student to investigate and evaluate a specific topic in biology under the supervision of a faculty member and to develop the student's skills in presenting current research in both the written and oral modes.

Prerequisites: 0401 514 and matriculation.

W 0401 595 GRADUATE RESEARCH IN BIOLOGY**1-4 sh**

Under the guidance of a faculty sponsor, students will investigate individual research problems of appropriate scope. Research which is not original may be approved but must be of a calibre to warrant graduate research standards.

Prerequisites: Matriculation in biology MA program, and completion of 15 sh in graduate biology.

W 0401 600 THESIS RESEARCH IN BIOLOGY**3-7 sh**

This course is designed to encourage supervised graduate research in a well-defined area of biology.

Prerequisites: Matriculation in biology MA program, approval of department chairman and graduate advisor, as well as faculty sponsor who will supervise research.

**W 0499 505 BACTERIOLOGICAL TECHNIQUES IN
MARINE SAMPLING****2 sh**

Standard methods of bacteriological water analysis, including MPN and membrane filtration. Special problems relating to sampling and analysis of marine sediments, surface and subsurface marine waters. Also offered at NJ Marine Science Consortium.

Prerequisites: General biology, general chemistry, and microbiology.

**W 1999 531 MARINE INVERTEBRATES: AMOEBOID
AND SPOROZOAN PROTOZOA****1 sh**

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of the amoeboid and sporozoan protozoa. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 532 MARINE INVERTEBRATES: CILIATED PROTOZOA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of the ciliated protozoans. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 533 MARINE INVERTEBRATES: FLAGELLATED PROTOZOA AND PORIFERA 2 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of the flagellated protozoans and sponges. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Offered at the site of the New Jersey Marine Sciences Consortium.

W 1999 534 MARINE INVERTEBRATES: COELENTERATA AND CTENOPHORA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of the coelenterates and ctenophores. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 535 MARINE INVERTEBRATES: THE WORM PHYLA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine worms with emphasis on the polychaetes. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Graduate standing in biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 536 MARINE INVERTEBRATES: MOLLUSCA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine molluscs. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology or invertebrate zoology or permission of the instructor.

W 1999 537 MARINE INVERTEBRATES: ARTHROPODA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine arthropods. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 538 MARINE INVERTEBRATES: BRYOZOA, ECHINODERMATA AND PROTOCHORDATA 1 sh

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine bryozoans, echinoderms and protochordates. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology preferably with background in ecology and invertebrate zoology or permission of the instructor.

W 1999 544 MARINE ICHTHYOPLANKTON 2 sh

A graduate-level field and laboratory course designed to familiarize the student with the study of marine fish eggs and larvae. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Preferably with some training in a field of marine biology or biological oceanography.

W 1999 551 ADVANCED MARINE BOTANY I: EUGLENOPHYTA, CHLOROPHYTA AND PHAEOPHYTA 2 sh

A detailed consideration of the functional morphology and evolution of the marine algae. Analysis of ecological and physiological adaptations of the euglenoids, green and brown algae. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Permission of the Instructor.

W 1999 572 MARINE PROCARYOTA: CYANOBACTERIA/ CYANOPHYCEAE 3 sh

An in-depth study of the morphology, cytology, ecology and taxonomy of marine bacteria and blue-green algae. Emphasis will be placed on organisms found in New Jersey waters. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Permission of the Instructor.

W 1999 573 MARINE DINOFLAGELLATES AND DIATOMS 2 sh

An in-depth study of the morphology, taxonomy and ecology of marine diatoms and dinoflagellates. Emphasis will be placed on organisms found in New Jersey waters. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Permission of the Instructor.

Standard methods of bacteriological water analysis, including MPN and membrane filtration. Special problems related to sampling and analysis of marine sediments, surface and subsurface marine waters. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: General biology, general chemistry, microbiology.

BUSINESS ADMINISTRATION

MBA Director, Michael A. Puglisi

The Montclair M.B.A. program is designed primarily for part-time students with liberal arts, scientific, or professional backgrounds. Prior work experience is not required, but is strongly recommended for all applicants.

The curriculum stresses the essential fundamentals of management disciplines, as well as practical applications of research findings and current managerial practices. The Montclair M.B.A. is structured so that management education remains relevant and flexible yet is sufficiently based on theory in order to provide a foundation for subsequent professional growth.

The goal of the program is to produce management generalists who are also skilled in one or more specific functional areas. In general, the M.B.A. program seeks to impart the knowledge, skills, and attitudes that help managers understand and assess complex situations and to evaluate and implement options in the light of potential consequences to the system and the larger environment.

Small classes, taught by a distinguished and qualified faculty, provide ample opportunity for intellectual growth and dynamic interaction.

Students whose interests are directed toward the not-for-profit sector will find appropriate course offerings built into the M.B.A. program.

ADMISSION REQUIREMENTS

Applicants are required to present for consideration the following information:

2 copies of an official transcript from each college and university attended.

2 recommendations from those qualified to evaluate applicant's promise of academic achievement and professional growth potential.

A statement of professional objectives and GMAT (Graduate Management Admission Test) scores.

CURRICULUM

The curriculum consists of 63 semester credit hours, 33 of which are devoted to a common body of knowledge required of all MBA students. The remaining 30 hours are allocated as follows: 9 hours devoted to an area of concentration; 15 hours of elective courses; and 6 hours of comprehensive courses. All M.B.A. students are required to complete an approved undergraduate calculus course as a prerequisite for Statistical Methods.

ADVANCED STANDING

The 63 sh requirement for the MBA may be reduced by a maximum of 33 sh through prior academic experience, challenge examinations and/or graduate level transfer credits not previously applied to another degree. However, a minimum of 30 sh must be completed at M.S.C.

REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION

I.	Required Core	33 sh	Prereq.
	2204 501 Economic Analysis	3 sh	
	2204 505 Aggregate Economics	3 sh	
	0502 501 Financial Accounting	3 sh	
	0502 502 Managerial Accounting	3 sh	2204 501 0502 501
	0503 501 Statistical Methods	3 sh	Calculus
	0503 502 Operations Research	3 sh	0503 501
	0504 501 Corporate Financial Management	3 sh	0502 501
	0506 501 Fundamentals of Management	3 sh	
	0506 502 Behavior in Organizations	3 sh	0506 501
	0506 503 Information Systems	3 sh	
	0509 501 Fundamentals of Marketing	3 sh	
II.	Required comprehensive courses	6 sh	
	0599 503 Research Methods in Business Administration	3 sh	completion of all but
	0599 603 M.B.A. Thesis	3 sh	6 sh of courses

Approval of the MBA director is required prior to registering for the comprehensive courses.

III. Concentrations 9 sh

All students are required to complete one area of concentration, normally chosen from one of the following specific fields:

Accounting
Business Economics
Finance
Management
Marketing
Quantitative Analysis

In addition, a co-concentration in International Business will be available to students who carefully plan their program. The student's concentration consists of three courses in addition to core courses in the selected field.

Students may follow an individualized concentration when sponsored by a faculty member and approved by the MBA Director.

Accounting Courses

				prereq.
0502 520	Contemporary Issues in Financial Acct. I	3 sh	0502 501	
0502 521	Contemporary Issues in Financial Acctg. II	3 sh	0502 520	
0502 522	Accounting for Decision Making & Control	3 sh	0502 502	
0502 523	Accounting for Business Combinations	3 sh	0502 502	
0502 524	Auditing Theory, Concepts & Practices	3 sh	0502 520	
0502 525	Fundamentals of Federal Taxation	3 sh	0502 501	

Business Economics Courses

2204 502	Financial Institutions & Monetary Policy	3 sh	2204 505	
2204 503	Economic Problems of the Third World	3 sh		
2204 508	Economics of Public Management	3 sh	2204 501	
2204 510	Urban Economics: Problems & Policy	3 sh	2204 501	
2204 533	Corporations & International Financial Markets	3 sh	2204 501	
2204 541	Foundations of Contemporary Economic Thought	3 sh	2204 501	
2204 542	Economic Fluctuations & Forecasting	3 sh	2204 505	

2204 543	United States and the World Economy	3 sh	2204 505
2204 544	Government & Business	3 sh	2204 505
2204 545	Economics of Labor	3 sh	2204 501

Finance Courses

0504 551	Investments, Portfolios & Security Analysis	3 sh	0504 501
0504 552	International Financial Policy	3 sh	0504 501
0504 554	Advanced Financial Policy	3 sh	0503 503
0504 555	Financial Structure Analysis	3 sh	0504 553

Management Courses

0506 510	Personnel Management	3 sh	0501 502
0506 511	Issues in International Management	3 sh	0501 501
0506 512	Organizational Development	3 sh	0501 502
0506 513	Leadership & Behavior	3 sh	0501 502
0506 514	Management & the Computer	3 sh	0501 502
			0503 503
0506 590	Strategy and Business Policy	3 sh	0506 501
			and permis. of MBA director
2207 501	Public Administration & Public Policy	3 sh	0501 501

Marketing Courses

0509 591	Consumer/Buyer Behavior	3 sh	0509 501
0509 592	International Marketing Management	3 sh	0509 501
0509 593	Product Planning/New Product Management	3 sh	0509 591
0509 594	Marketing Research and Information Systems	3 sh	0509 501
0509 595	Marketing Management	3 sh	0509 501

Quantitative Analysis

0503 531	Business Models	3 sh	0503 501
0503 532	Statistical Inference for Business	3 sh	0503 501
0503 533	Stochastic Models	3 sh	0503 502
0503 534	Multivariate Analysis	3 sh	0503 502
			0503 532
0503 535	Advanced Information Systems	3 sh	0503 503

IV. Electives 15 sh

Students must take at least 15 hours in addition to core requirements in courses outside the field of concentration. See above list. All elective courses taken outside the School of Business Administration must be approved in advance by the MBA Director.

BUSINESS ADMINISTRATION

Course Descriptions

ACCOUNTING COURSES

A 0502 501 FINANCIAL ACCOUNTING 3 sh

A study of basic accounting concepts and their significance to the financial analyst and manager. Problems relating to income determination, valuation, reporting and analysis are stressed. Alternative conceptual foundations of reporting standards are presented and evaluated.

A 0502 502 MANAGERIAL ACCOUNTING 3 sh

The development and use of accounting information for decision-making and control. Alternative cost concepts, cost-volume profit analysis, and relevant costing techniques are introduced in the context of providing information for solving pricing; make or buy; product-mix; and resource utilization problems. The use of accounting data for control systems, variance analysis and performance evaluation are presented.

Prerequisites: 0502 501, 2204 501.

A 0502 520 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING I 3 sh

Builds on the material presented in Financial Accounting. Students should gain an improved understanding of the techniques and underlying rationale of the methods used to accumulate financial and operating data. Develops skills in analyzing information provided in annual financial reports.

Prerequisite: 0502 501.

A 0502 521 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING II 3 sh

Enables students to acquire an improved understanding of the composition and significance of various segments of the balance sheet, especially non-current assets, non-current liabilities, and the stockholders' equity section, and the statement of changes in financial position.

Prerequisite: 0502 520.

A 0502 522 ACCOUNTING FOR DECISION MAKING AND CONTROL 3 sh

The focus of this course is the integration with managerial accounting of the discipline of economics, managerial science and behavioral sciences. Quantitative techniques such as regression, linear programming and calculus are investigated in light of managerial accounting applications. The implications of behavioral sciences on the function of performance evaluation is investigated.

Prerequisite: 0502 502.

A 0502 523 ACCOUNTING FOR BUSINESS COMBINATIONS 3 sh

Presents the conceptual foundations and current reporting practices of accounting for business combinations. Purchase and pooling methods of accounting for business acquisitions and preparation of consolidated financial statements are extensively covered.

Prerequisite: 0502 520.

A 0502 524 AUDITING THEORY, CONCEPTS AND PRACTICES 3 sh

A course in auditing principles, theory, design and techniques. The theory, practice and techniques are integrated through the use of current auditing problems and student performance of a simulation audit of selected financial statement data.

Prerequisite: 0502 520.

A 0502 525 FUNDAMENTALS OF FEDERAL TAXATION 3 sh

The development and use of principles and concepts of federal tax laws affecting non-business entities, analysis of internal revenue code and regulations as well as pertinent cases in the areas of gross income; characterization of gains and losses; taxpayer status and deductions will be studied.

Prerequisite: 0502 501.

BUSINESS ECONOMICS COURSES

C 2204 501 ECONOMIC ANALYSIS 3 sh

The resource allocation and income distribution implications of households and firms under varying degrees of competition.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3 sh

This course analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include the commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems both theoretical and applied in the area of monetary policy.

Prerequisite: 2204 505.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3 sh

A survey of major economic problems of the third world. Examination of the economic structure of developing countries and of general theories of economic development. Critical evaluation of various policy alternatives for their development. Analysis of possible economic relationships between first and second worlds with the third world.

C 2204 505 AGGREGATE ECONOMICS 3 sh

This course develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models, the course examines current research and reviews the economy's recent macroeconomic performance.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3 sh

Application of capital theory in the decision-making processes of government. Alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the areas of physical and human resource management such as water resource management, public health, and education.

Prerequisite: 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS AND POLICY 3 sh

The location of economic activities. The growth of cities and the origins of some urban problems in a market economy. Limited emphasis on the problems of location and congestion due to agglomeration in non-market economics.

Prerequisite: 2205 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3 sh

The course will discuss the economic theories and problems which confront business institutions when dealing in international financial markets. It will analyze the various market instruments and how a corporation may use them.

Prerequisite: 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3 sh

Antecedents of current economic theory; economics as a cumulative science; the works of the creative economists; the uses and limitations of economic theory.

Prerequisite: 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS AND FORECASTING 3 sh

Theories to account for variations in business activity. Macroeconomic forecasting approaches; economic fluctuations in the United States; proposals for reducing fluctuations. Harrod Domar model; Modern Theory of Growth.

Prerequisite: 2204 505.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3 sh

Principles of international finance, monetary relations and trade; contemporary international monetary and trade problems and policies; the economic aspects of current American foreign policy.

Prerequisite: 2204 505.

C 2204 544 GOVERNMENT AND BUSINESS**3 sh**

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control; the importance of economic analysis; the foundation of public policies.

Prerequisite: 2204 505.

C 2204 545 ECONOMICS OF LABOR**3 sh**

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors, market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.

Prerequisite: 2204 501.

FINANCE COURSES**D 0504 501 CORPORATE FINANCIAL MANAGEMENT****3 sh**

An introductory course in corporate financial management which provides an understanding of the fundamental concepts of modern finance from an analytical and quantitative perspective. Serves as a foundation course for further work in finance. The course stresses: valuation; capital budgeting decisions; capital structure and dividend decisions.

Prerequisite: 0502 501.

**D 0504 551 INVESTMENTS, PORTFOLIOS AND
SECURITY ANALYSIS****3 sh**

The analytical methods relevant to investment management are explored. Techniques are presented for the evaluation of corporate equity, debt, and other securities. Portfolio theory is presented in the context of formulating and managing appropriate asset portfolios.

Prerequisite: 0504 501.

D 0504 552 INTERNATIONAL FINANCIAL POLICY**3 sh**

Analytically-oriented introduction to the political, economic, operational and tax environment in which international business, particularly multinational corporations, functions. Stressing methods of analysis which enable defensive strategies against risk, the course is comprised of five major units: political and country risk; foreign exchange risk; long-run investments and financing; working capital management; and control performance evaluation and tax planning.

Prerequisite: 0504 501.

D 0504 554 ADVANCED FINANCIAL POLICY**3 sh**

This course focuses on the application of valuation, investment, financing and dividend decisions to case studies. It examines various practical problems in capital budgeting, the valuation of different kinds of debt and options, and financial planning and strategy.

Prerequisites: 0504 501, 0503 503.

D 0504 555 FINANCIAL STRUCTURE ANALYSIS 3 sh

This is an advanced course in finance which deals with the long-term financing decisions and strategies of the corporations. The theory of capital structure and costs of capital is presented. Emphasis is on integration of the investment and financing decisions of the firm.

Prerequisite: 0504 553.

MANAGEMENT COURSES

E 0506 501 FUNDAMENTALS OF MANAGEMENT 3 sh

To provide graduate students with a review of classical approaches to the managerial functions and of current literature from the behavioral sciences that are directly applicable to the managerial process of planning, organizing, motivating, and controlling. These reviews will be tied with the open-system model or the contingency approach as an overall framework for understanding organizations and their management. Skills are developed which facilitate situational diagnosis leading to managerial action that is appropriate in specific circumstances.

E 0506 502 BEHAVIOR IN ORGANIZATIONS 3 sh

Major behavioral concepts as they relate to complex organizations are reviewed with emphasis on current theory and research. Topics include employee motivation, learning, group behavior, job design and leadership. Prerequisite: 0506 501.

E 0506 503 INFORMATION SYSTEMS 3 sh

This course examines the information requirements of an organization. The differences in the kinds of information needed at the various organizational levels (operational, administrative and strategic) are emphasized. How to plan and implement a comprehensive information system is discussed as well as methods to measure its effectiveness.

E 0506 510 PERSONNEL MANAGEMENT 3 sh

Review of current literature from the behavioral sciences that applies to recruiting, selection, training, performance evaluation, labor relations, compensation, health and safety, and management development. Current problem applications are emphasized.

Prerequisite: 0506 502.

E 0506 511 ISSUES IN INTERNATIONAL MANAGEMENT 3 sh

An in-depth analysis of all components of international business management. Major emphasis is placed upon multinational business operations, including foreign profit centers, national and cultural differences, and comparative management systems with consequent impact on profitability. These are studied in terms of their influence on all areas of international trade.

Prerequisite: 0506 501.

E 0506 512 ORGANIZATIONAL DEVELOPMENT 3 sh

The purpose of this course is to enhance the student's understanding of the process of change in organizations. Furthermore, students will be introduced to certain intervention techniques which will allow them to recognize the need for organizational change as well as implement a simple action program.

Prerequisite: 0506 502.

E 0506 513 LEADERSHIP AND BEHAVIOR 3 sh

The course aims to give students a thorough grounding in comparing and contrasting major theoretical approaches to leadership behaviors as well as in facilitating application of this body of knowledge to issues facing managers and administrators.

Prerequisite: 0506 502.

E 0506 514 MANAGEMENT AND THE COMPUTER 3 sh

Study of computers and their use as management tools in information systems, research, control procedures, production, finance, modeling and decision-making. Topics include description of end application of different hardware and software components, and programming concepts. Computer cost benefit analysis in all of the above and in systems applications.

Prerequisites: 0506 502, 0506 503.

E 0506 590 STRATEGY AND BUSINESS POLICY 3 sh

The focus of this course is on actual business situations and their impact on the total organization including the role of top management in dealing with these problems. The structure of the course is based on the strategic management process which includes identification, evaluation and implementation of policy and strategy. Other aspects of the course include an analysis of the external environment and its influence on strategy.

Prerequisite: 0506 501 and permission of MBA director.

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3 sh

Literature and developments in the field of public administration from Woodrow Wilson to the New Public Administration Movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy-making process.

Prerequisite: 0506 501 and permission of MBA director.

MARKETING COURSES

F 0509 501 FUNDAMENTALS OF MARKETING 3 sh

The aim of Fundamentals of Marketing is to develop an understanding of the principles of marketing as they operate in the economy as a whole and as practiced by all types of businesses. Attention will be directed to the problems marketing managers face in creating, promoting, and delivering want-satisfying products to the consumer.

F 0509 591 CONSUMER/BUYER BEHAVIOR 3 sh

Consumer/Buyer Behavior aims at developing an understanding of the social and psychological factors that influence buying behavior. The managerial implications of these factors are emphasized.

Prerequisite: 0509 501.

F 0509 592 INTERNATIONAL MARKETING MANAGEMENT 3 sh

An examination of the various multinational and transnational issues confronting business organizations marketing products and services in overseas markets. Attention will be focused on problems such as identifying and evaluating markets, adapting marketing strategies to specific market needs and coordinating strategies in world markets.

Prerequisite: 0509 501.

F 0509 593 PRODUCT PLANNING/NEW PRODUCT MANAGEMENT 3 sh

An examination of the issues surrounding the management of existing product lines and the development of new products. Topics will include organizing and planning for product management, marketing research and concept testing, product life cycle approach, and new product development strategies and techniques.

Prerequisite: 0509 591.

F 0509 594 MARKETING RESEARCH AND INFORMATION SYSTEMS 3 sh

An examination of the development of information for use by marketing decision-makers. Topics will include using secondary data, collecting and evaluating primary data, managing the marketing research process, and developing a coordinated marketing information system.

Prerequisite: 0509 501.

F 0509 595 MARKETING MANAGEMENT 3 sh

An intensive analysis of the issues and problems facing marketing managers. Emphasis is on the development of decision-making skills from a tactical as well as strategic viewpoint.

Prerequisite: 0509 501.

QUANTITATIVE ANALYSIS COURSES

D 0503 501 STATISTICAL METHODS 3 sh

Introduction to statistical techniques with applications in business decision-making and problem solving. Topics include descriptive statistics, probability distributions, statistical estimation and hypothesis testing, regression and correlation, and time-series analysis.

Prerequisite: Calculus.

D 0503 502 OPERATIONS RESEARCH 3 sh

A presentation of many of the applied mathematical techniques used to help make business decisions. Topics include the theory of decisions, linear programming, network analysis, queueing. Markov processes and simulation.

Prerequisite: 0503 501.

D 0503 531 BUSINESS MODELS**3 sh**

An advanced course in quantitative approaches to managerial decision-making. The emphasis will be on simulation models and techniques with applications in finance, production, inventory and queueing analysis. Computer-based simulation systems will be discussed and tested on the computer.

Prerequisite: 0503 501.

**D 0503 532 STATISTICAL INFERENCE FOR
BUSINESS****3 sh**

An exploration of intermediate statistical methodologies used for decision making. The theoretical bases for various techniques are presented so as to create a framework for understanding the assumptions and limitations of inferences made from data. Topics covered will include multivariate probability functions, moment generating functions, sampling distributions, estimation, Neyman-Pearson Lemma, parametric and non-parametric hypothesis tests, and analysis of variance.

Prerequisite: 0503 501.

D 0503 533 STOCHASTIC MODELS**3 sh**

Stochastic Models are descriptions of systems which change in accordance with probabilistic laws. The course focuses on construction rather than solution of models, simulation solutions and statistical analysis of data from stochastic processes. Applications to business problems are stressed.

Prerequisite: 0503 502.

D 0503 534 MULTIVARIATE ANALYSIS**3 sh**

An introduction to Multivariate Analysis with an emphasis on the practical application of these techniques. After introducing the multivariate distribution, the following statistical procedures are explored: multiple regression, discriminant analysis, multivariate tests of significance, canonical analysis, factor analysis and multidimensional scaling.

Prerequisites: 0503 502, 0503 532.

COMPREHENSIVE COURSES**A 0599 503 RESEARCH METHODS IN BUSINESS
ADMINISTRATION****3 sh**

An examination of the theoretical and practical experiences in methods of inquiry, research study design, the utilization of various techniques for gathering data, the statistical analysis of data, and practical experience in writing a thesis research proposal.

Prerequisite: Completion of all but 6 s.h. of MBA course work.

A 0599 603 MBA THESIS**3 sh**

Provides an intensive research experience for MBA candidates. It reflects the culmination of MBA program learning experiences and involves the completion of a thoroughly researched and documented essay.

Prerequisite: 0599 503.

BUSINESS EDUCATION

Chairperson and Graduate Advisor: Dr. Albert D. Rossetti

The department of business education and office systems administration prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education. In order to attain these objectives, candidates have an opportunity to supplement their undergraduate program and to explore advanced areas of work in accordance with their individual background, experience, achievement, and professional needs.

ADMISSION REQUIREMENTS

Graduate work toward the Master of Arts Degree in Business Education presupposes the completion of an undergraduate major in Business or Distributive Education or equivalent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BUSINESS EDUCATION

- | | | |
|------|--|-------|
| I. | Basic Professional Education | 6 sh |
| II. | Specialization | 20 sh |
| | A. Required Courses | |
| | 0838 501 Principles and Problems of
Business Education | 3 sh |
| | 0838 503 Introduction to Research in
Business Education | 3 sh |
| | 0838 603 Seminar in Business Education | 3 sh |
| | At least one of the following: | |
| | 0838 511 Improvement of Instruction in Bookkeeping,
Accounting and Business Arithmetic | 3 sh |
| | 0838 512 Improvement of Instruction in General Business
Subjects | 3 sh |
| | 0838 513 Improvement of Instruction in Stenography
and Secretarial Practice | 3 sh |
| | 0838 514 Improvement of Instruction in Typewriting,
and Clerical Practice | 3 sh |
| | B. Electives in Business Education | 8 sh |
| III. | Free Electives | 6 sh |
| IV. | Comprehensive Examination. Oral and written, given in the Fall and
Spring in conjunction with 0838 603 Seminar in Business Education.
Examinations are general in nature and are intended to test maturity
of thought with respect to business education. | |

Minimum: 32 semester hours

BUSINESS EDUCATION

Course Descriptions

B 0838 501 PRINCIPLES AND PROBLEMS OF BUSINESS EDUCATION 3 sh

Survey of principles and practices. History of Business Education, objectives, relationship of Business Education to general education, trends and problems in the field.

B 0838 503 INTRODUCTION TO RESEARCH IN BUSINESS EDUCATION 3 sh

Literature and research of Business Education. Topics covered include: evaluation of current literature in Business Education research and tools used for interpreting statistical data. Student develops outline of research study to be completed in 0838 0603, Seminar in Business Education.

Prerequisite: B 0838 501

B 0838 505 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION 3 sh

Study of problems of organizing, directing and supervising Business Education programs at the secondary school and collegiate levels.

B 0838 506 BUSINESS EDUCATION CURRICULUM 3 sh

Study of business education for various levels and types of schools. Evaluation of specific programs for development of improved curricula.

B 0838 511 IMPROVEMENT OF INSTRUCTION IN BOOKEEPING, ACCOUNTING & BUSINESS ARITHMETIC 3 sh

Study of objectives, content, methods, teaching aids, and evaluation procedures. Prerequisites: Undergraduate methods course in bookkeeping and/or teaching experience.

B 0838 512 IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS SUBJECTS 3 sh

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as General Business, Economic Geography, Business Law and Consumer Education.

Prerequisite: Undergraduate course in general business methods and/or teaching experience.

B 0838 513 IMPROVEMENT OF INSTRUCTION IN STENOGRAPHY AND SECRETARIAL PRACTICE 3 sh

Study of objectives, content, methods, teaching aids, and evaluation procedures for subjects in stenography and secretarial practice. Proficiency examinations in stenography will be given.

Prerequisites: Undergraduate methods in stenography and/or teaching experience.

B 0838 514 IMPROVEMENT OF INSTRUCTION IN 3 sh
TYPEWRITING AND CLERICAL PRACTICE

Study of objectives, content, methods, teaching aids, and evaluation procedures for subjects in typewriting and clerical practice. Proficiency examinations in typewriting will be given.

Prerequisites: Undergraduate methods in typewriting and/or teaching experience.

B 0838 528 FIELD STUDIES IN 3 sh
BUSINESS/DISTRIBUTIVE EDUCATION

Opportunity for the classroom teacher to evaluate some of the practices of business offices, industries, and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

B 0838 529 PRINCIPLES OF COOPERATIVE OFFICE 3 sh
EDUCATION

Survey of principles and practices of cooperative office education. Objectives, organization, related class, placement, and supervision are investigated.

Prerequisite: Business education teaching certificate.

B 0838 530 BUSINESS/DISTRIBUTIVE EDUCATION IN 3 sh
POST-H.S. INSTITUTIONS

This course is designed to acquaint the student with the purposes, curricula, methods, and problems of teaching Business Education subjects in post-high school institutions, including financial institutes, two-year and four-year colleges.

B 0838 540 WORKSHOP IN BUSINESS EDUCATION 1-3 sh

This course will give the business educator the opportunity to do an intensive study of a selected current issue, concern, and/or problem in Business Education.

B 0838 570 BUSINESS/DISTRIBUTIVE EDUCATION FOR 3 sh
TEACHERS OF THE DISADVANTAGED

Prepares teachers of Business subjects to meet specific needs of disadvantaged students. Occupational opportunities open to the disadvantaged, and the secondary school business program which will prepare them for these occupations. Teachers will build curricula and develop special instructional materials and methods needed for disadvantaged students in the inner-city schools.

B 0838 603 SEMINAR IN BUSINESS EDUCATION 3 sh

Matriculated graduate student in Business or Distributive Education completes research project in Business or Distributive Education. Course also prepares student for Master of Art's comprehensive examinations.

Prerequisite: B 0838 503.

B 0840 550 IMPROVEMENT OF INSTRUCTION IN RETAILING SUBJECTS 3 sh

Study of objectives, content, methods, teaching aids and evaluation procedures for courses in salesmanship, retail store operation, advertising, merchandising and marketing.

Prerequisite: Undergraduate methods in Distributive Education, and/or teaching experience.

B 0840 552 IMPROVEMENT OF INSTRUCTION IN WHOLESALING AND SERVICES 3 sh

Objectives, content, methods, teaching aids and evaluation procedures for courses in wholesaling, limited and service types, service, gas stations, cleaning establishments, rent-all and other service organizations.

Prerequisites: Undergraduate methods course and/or teaching experience in Distributive Education.

B 0840 553 PRINCIPLES AND PROBLEMS OF ADULT EXTENSION DISTRIBUTIVE EDUCATION 3 sh

Organization, promotion, publicity and methods for adult extension classes—using community resources. Includes inservice, preservice and advanced courses for adults in urban and suburban situations.

B 0840 554 WORKSHOP IN PROBLEMS OF DISTRIBUTIVE EDUCATION 3 sh

Intensive analysis of problem-solving in Distributive Education programs. Discuss experience in teaching and administering Distributive Education programs. Committee work-seminar method is used.

B 0840 556 THE PROJECT METHOD IN DISTRIBUTIVE EDUCATION 3 sh

Development, use and coordination of individual, small-group and class vocational projects providing simulated occupation experience for the high school "non-cooperative" Distributive Education student.



CHEMISTRY

Chairperson: Dr. John Isidor

Graduate Advisor: Dr. Joseph F. Becker

The chemistry department offers advanced level courses in all major areas of chemistry as well as a number of highly specialized courses and individualized research opportunities. Students may selectively take a course or several courses to increase their professional competence in a particular area of chemistry and/or may elect to enroll in the Master of Arts Program in chemistry as outlined below.

ADMISSION REQUIREMENTS

The minimum requirements for the Graduate Division as set forth in this bulletin are essential for admission to the graduate program in Chemistry. When the student is admitted to the Graduate Division, the Chemistry advisor will evaluate the background in Chemistry, other sciences and Mathematics and a specific program will be designed. An entering student should present at least twenty-four semester hours of undergraduate Chemistry credits. In consultation with the Chemistry advisor, a program may be designed for students with less background to include prerequisites. Candidates for the Master's Degree in Chemistry should seek the guidance of the Chemistry advisor in selecting the six hours of free electives, and in fulfilling the research option.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CHEMISTRY

- I. Specialization 26 sh
 - A. Courses in Chemistry at the 500 level or above 15 sh
 - B. Research: One of the following:
 - 1905 599 Graduate Literature Search in Chemistry 2 sh
 - or
 - 1905 595 Graduate Research and
 - 1905 600 Thesis 4 or 6 sh
 - C. Graduate Level Electives in Sciences
 - or Mathematics 5-9 sh
- II. Graduate Level Free Electives 6 sh
- III. Comprehensive Examination

Minimum: 32 semester hours

Course Descriptions

Current theories of inorganic structure, reactions and properties.
Prerequisite: One year of Physical Chemistry.

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.
Prerequisite: Advanced Organic Chemistry.

Detailed study of the art, methods, and the philosophy of organic synthesis beginning with a review of classical and modern synthetic methods, followed by the planning theory of synthesis and culminating in a study of elegant synthesis in the literature.
Prerequisite: Advanced Organic Chemistry.

In-depth study of classical thermodynamics. Development of thermodynamic functions describing chemical systems in equilibrium with emphasis on systems of variable composition.
Prerequisites: Advanced organic chemistry; advanced calculus.

Theoretical development of quantum mechanics and statistical mechanics as applied chemistry. Application of theoretical procedures to atomic and molecular structural and bonding.

Prerequisites: One year of physical chemistry; course in differential equations.

Principles and application of electrochemistry, relationship of electrochemical principles to classical thermodynamics, and practical applications of electrochemistry.
Prerequisite: Physical chemistry.

Introduction to the theory of molecular spectroscopy.
Prerequisite: One year of physical chemistry.

Kinetics in its role of elucidating reaction mechanisms. Discussion of recent problem from chemical literature including fast reaction and enzyme kinetics.
Prerequisite: One year of physical chemistry.

X 1905 570 ADVANCED BIOCHEMISTRY 3 sh

A detailed treatment of selected topics in biochemistry. Discussions of carbohydrates, lipid and amino acid metabolism, protein synthesis and nucleio acid chemistry.

Prerequisite: Completion of one semester of biochemistry.

X 1905 590 SELECTED TOPICS—ADVANCED CHEMISTRY 3 sh

An in-depth study of selected areas in either analytical, inorganic, organic, biochemistry or physical chemistry with special emphasis upon recent developments in the field.

X 1905 595 GRADUATE RESEARCH 0 sh

Directed individual laboratory investigation under guidance of faculty advisor. May be elected once or twice; maximum credit allowed is 4 semester hours.

Prerequisite: Completion of 12 semester hours in this program.

X 1905 599 GRADUATE LITERATURE SEARCH IN CHEMISTRY 2 sh

An individual non-experimental investigation utilizing the scientific literature.

Prerequisite: Completion of 12 semester hours in this program.

X 1905 600 THESIS 4 sh

Writing, presentation, and defense of thesis before the Chemistry faculty.

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Dr. Joseph S. Attanasio

Graduate Advisors: Dr. Elaine Barden, Dr. Warren E. Heiss, Dr. Michael Lindenman, Dr. Edward Shulman, Dr. Gerald Woolf, Dr. Shirley Zeitlin

Graduate students have the opportunity to specialize within the broad area of Communication Sciences and Disorders in one of the five major tracks: (1) Speech-Language Pathology; (2) Audiology; (3) The Hard of Hearing and the Deaf; (4) Learning Disabilities, and (5) Early Childhood Special Education.

All five programs stress an interdisciplinary approach to the understanding and remediation of communication and learning disorders, with

emphasis on development of clinical and teaching skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual, clinical and teaching skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

ADMISSION REQUIREMENTS

Speech-Language Pathology

Students wishing to matriculate in this area must have completed the equivalent of 30 semester hours from among the following areas:

A. Professional Education—A minimum of 9 semester hours including one course from each of the following: principles and practices of education, educational psychology and curriculum.

B. Specialization—A minimum of 12 semester hours from among the following: psychology and education of the handicapped, phonetics, anatomy and physiology of the auditory and vocal mechanisms, speech correction, speech pathology, clinical practices in speech correction, measurement of hearing (audiology).

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's Degree.

Audiology and The Hard of Hearing and the Deaf

Students wishing to matriculate in this area must have a minimum of 18 semester hours from among the following: anatomy and physiology of the auditory and vocal mechanisms, speech and language development, speech pathology, measurement of hearing, auditory rehabilitation, clinical practice in audiology.

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the Master's Degree.

Learning Disabilities

Students wishing to matriculate in this area must have a standard New Jersey teachers certificate, one year of successful teaching experience; approval by Graduate Committee on Admission for this program; two letters of recommendation regarding teaching or therapy skills.

Note: State certification requirements for Learning Disabilities Teacher Consultants are subject to change.

Early Childhood Special Education

Students wishing to matriculate in this area must have a New Jersey instructional teacher's certificate.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMMUNICATION SCIENCES AND DISORDERS

I.	Basic Requirements	9 sh
	One of the following:	
	0824 503 Methods of Research	3 sh
	2001 510 Research Methods in Psychology	3 sh
	*0824 507 Measurement and Evaluation in Cognitive	3 sh
	Domain	
	or	
	*0824 578 Testing and Evaluation	3 sh
	or	
	*2001 578 Psychological Tests and Measurement	3 sh
	Two of the following:	
	0808 500 Nature of Reading	3 sh
	1220 500 Acquisition of Speech and Language	3 sh
	1220 583 Language Disorders in Children	3 sh
	Either:	
	*2001 563 Theories of Learning	3 sh
	or	
	*2001 560 Advanced Educational Psychology	3 sh
The following electives may be taken in place of or in addition to required courses listed above by permission only.		
	1220 502 Psychology of Oral Communication	3 sh
	2001 561 Developmental Psychology	3 sh
	0842 564 Dynamics of Group Process	3 sh
	2001 568 Psychology of Group Dynamics	3 sh
	0826 570 Counseling Adults	3 sh
	0826 580 Principles of Guidance and Counseling	3 sh
	2001 582 Behavior Modification	3 sh
	0826 585 Group-Guidance and Counseling Activities	3 sh
II.	Core Courses	8 sh
	Required of all students regardless of specialization:	
	2001 565 Psychology and Education of Socially and	3 sh
	Emotionally Handicapped Children	
	*2001 573 Physiology Psychology	3 sh
	or	
	*1220 595 Medical and Physical Bases of Learning	3 sh
	Disabilities	
	2001 561 Developmental Psychology	3 sh
	(required for Teacher of the Emotionally	
	Disturbed program)	
	1220 620 Orientation and Observation in Special	2 sh
	Special Education	
The following electives may be taken in place of or in addition to required courses listed above by permission only:		

1301 445	The Inner City Family	3 sh
0821 540	Social Forces and Education	3 sh
2001 553	Urban Psychology	3 sh
2001 564	Psychology and Education of the Physically and Mentally Handicapped Children	3 sh
1220 586	Education of the Handicapped	3 sh
*Required for certification in Learning Disabilities.		
III.	Specialization Requirements	21 sh

Speech-Language Pathology

1220 535	Advanced Seminar in Communication Disorders	6 sh
1220 531	Advanced Audiology	3 sh
1220 583	Language Disorders in Children	3 sh
1220 592	Seminar in Research in Speech Pathology	3 sh
	Electives	6 sh

Completion of 150-300 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation of the graduate degree.

ASHA certification requirements in Speech Pathology include a 3 credit undergraduate or graduate course in Aural Rehabilitation.

Audiology

1220 536	Seminar in Audiology	6 sh
1220 531	Advanced Audiology	3 sh
1220 593	Seminar in Research in Audiology	3 sh
	Elective in auditory rehabilitation	3 sh
	(1220 537, 569, 570 or 571)	
	Departmental Electives in Audiology	6 sh

The Hard of Hearing and the Deaf

1220 531	Advanced Audiology	3 sh
1220 561	Clinical Practicum on Teaching the Deaf (150 hours)	3 sh
1220 569	Teaching Total Communication to the Deaf I	3 sh
1220 570	Teaching Total Communication to the Deaf II	3 sh
1220 571	Methods of Teaching the Deaf	3 sh
1220 578	Seminar in Research in the Hard of Hearing and the Deaf	3 sh
	Elective	3 sh

Learning Disabilities

1220 580	Diagnosis and Correction of Children with Learning Disabilities I	3 sh
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1220 581	Diagnosis and Correction of Children with Learning Disabilities II	3 sh
1220 582	Remediation of Basic Skills	3 sh
1220 590	Practicum in Learning Disabilities	3 sh
1220 589	Seminar in Research in Learning Disabilities	3 sh
Electives		6 sh

Early Childhood Special Education

1220 504	Neuromotor Development of the Young Child	3 sh
1220 505	Language Disordered Preschoolers: Identification/Education	3 sh
1220 506	Assessment of Preschool Handicapped Children	3 sh
1220 507	Implementing Programs for Young Handicapped Children	3 sh
1220 508	Parents of Young Handicapped Children: The Educator's Role	3 sh
1220 510	Field Experiences in Early Special Education	3 sh

Special Topics Seminar in Psychology

2001 659	Typical and Atypical Development of Pre-School Children	3 sh
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Note: 1220 509 Seminar in Research in Early Childhood Special Education (3 sh) is required as part of Basic Requirements. Other basic and core requirements are determined through advisement.

IV. Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

Communication Sciences

1220 522	Advanced Phonetics	2 sh
1220 534	Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms	3 sh
1220 572	Speech Science and Instrumentation	3 sh

Communication Disorders

Speech Pathology

1220 511	Advanced Speech Pathology	3 sh
1220 512	Advanced Diagnosis of Communication Disorders	3 sh
1220 513	Parent Counseling in Communication Disorders	3 sh
1220 514	Communication Disorders of the Aged	3 sh
1220 515	Voice Disorders	3 sh

1220 532	Practicum in Speech Rehabilitation	2-3 sh
1220 584	Cleft Palate and Oral Deformities	3 sh
1220 585	Stuttering	3 sh
1220 591	Organization and Administration of	3 sh
	Communication Disorders Program	
1220 594	Independent Study	1-3 sh
1220 533	Supervision of Speech and Hearing Programs	3 sh
Audiology		
1220 537	Hearing Aids and Hearing Aid Selection	3 sh
1220 538	Differential Audiometry	3 sh
1220 540	Practicum in Audiology	1-3 sh
1220 542	Identification Audiometry and Conservation	3 sh
	Programs	
Deafness and Hearing Impairment		
1220 574	Psychology of Deafness	3 sh
1220 500	Speech and Language Acquisition	3 sh
1220 501	Language Development in the Primary	3 sh
	Grades	
Learning Disabilities		
1220 586	Education of the Handicapped	3 sh
1220 564	Psychology and Education of the Physically	3 sh
	and Mentally Handicapped Child	
1220 561	Developmental Psychology	3 sh
2001 582	Behavior Modification	3 sh
0824 564	Dynamics of Group Process	3 sh

Additional Department Requirements

1. Students pursuing concentrations in Learning Disabilities and Early Childhood Special Education are required to take an examination to assess proficiency in the understanding of basic concepts, issues, and practices. This examination will be given prior to admittance into practice and research courses. Passing this examination is a prerequisite for entry into practice and research courses. Students apply for this examination in consultation with their advisors. If the examination is failed, appropriate plans of action will be developed by advisor and student to address deficiencies.

2. Students in all concentration areas are required to complete successfully a comprehensive examination or project. Comprehensive projects and examinations are designed to give students an opportunity to demonstrate their ability to integrate major concepts while working closely with the faculty. Comprehensive projects and examinations are to be culminating activities in the students' programs.

Note that there is a limit to the number of times a student may take the comprehensive examination. Comprehensive projects may require revisions before being accepted and there is a limit to the number of

revisions allowed. Students are required to consult with their advisors for specific information on these additional department requirements.

3. Majors in speech-language pathology and audiology must complete a total of 300 hours of supervised direct clinical experience. Up to 150 hours completed as an undergraduate will be accepted toward the requirement. Majors in The Hard of Hearing and the Deaf and in Learning Disabilities must complete a minimum of 150 clock hours of supervised experience. Majors in Early Childhood Special Education must complete a field experience.

Course are offered in this department that meet prerequisite requirements in Speech-Language Pathology for admission to the graduate program. In addition, post-master's students may apply for admission to a program leading to certification for Learning Disabilities Teacher-Consultant.

REQUIREMENTS FOR CONCENTRATION IN TEACHER OF THE SOCIALLY AND EMOTIONALLY HANDICAPPED

One course of study in the College's interdepartmental programs in Special Education prepares students to teach socially and emotionally maladjusted children. This concentration, coordinated by the Psychology Department, also leads to New Jersey certification in Teacher of the Handicapped. (Please refer to page 197, for M.A. in Educational Psychology. Interrelated Graduate Program in Special Education.)

Post-Master's Certification Program in Learning Disabilities

A post-Master's candidate seeking certification in Learning Disabilities must complete twenty-four semester hours in the area of study listed below. Qualified teachers, however, who have already earned a Master's degree in Education, Reading, Speech Correction, Psychology, Special Education, or similar fields, may apply appropriate credits toward the 24 sh required for LDT-C certification.

Note: State certification requirements for Learning Disabilities Teacher-Consultants are subject to change.

REQUIREMENTS FOR CERTIFICATE IN LEARNING DISABILITIES

The graduate advisor will examine the post-Masters applicant's transcripts of completed graduate courses in order to determine which of the following courses may be applied toward certification for Learning Disabilities Teacher-Consultant:

A. Required Studies (not necessarily in separate courses):

1. Education of the Handicapped

MSC Equivalent
2001 564 or 1220 586

2. Learning Theory	2001 563 or 2001 560
3. Physiological Bases of Learning	2001 573 or 1220 595
4. Orientation to Psychological Testing	2001 578 or 0824 578
5. Remediation of Basic Skills	1220 582
6. Diagnosis and Correction of Learning Disabilities	1220 580 & 581
7. 150 clock hours supervised practicum (minimum)	1220 590
B. Electives	
1. Group Dynamics	0842 564; 2001 568
2. Teaching the Emotionally Disturbed Child	2001 565
3. Curriculum Development for the Handicapped	2001 541
4. Child Growth and Development	2001 561
5. Language Development and Disorders	1220 563
6. Teaching of the Culturally Handicapped	2001 553; 2001 541
7. Interviewing and Counseling	0826 580; 2001 593
8. Educational Psychology	2001 560
9. Community Resources	0826 560; 1220 620

Each student's record will be evaluated by the Office of the Registrar after completing all, or the necessary part, of the 24-sh requirement. If work has been satisfactorily completed, and all other requirements have been met, the student will be recommended to the Office of Teacher Education and Certification for certification as a *Learning Disabilities Teacher-Consultant*.

The requirements for this endorsement, in addition to the completion of the prescribed academic program, are:

1. A standard New Jersey Teacher's Certificate.
2. Three years of successful teaching experience (MSC requires two letters of recommendation from a current or previous employer and a notarized statement verifying at least three years of full-time paid employment as a teacher or clinician).
3. A Master's degree in a related field from an accredited college.

COMMUNICATION SCIENCES AND DISORDERS

Course Descriptions

L 1220 500 SPEECH AND LANGUAGE ACQUISITION 3 sh

The nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.

L 1220 501 LANGUAGE DEVELOPMENT IN PRIMARY GRADES 3 sh

Language activities in the elementary school curriculum analyzed with emphasis on the development of techniques for enhancing oral language proficiency in the school-aged child.

L 1220 502 PSYCHOLOGY OF ORAL COMMUNICATION 3 sh

Speech and language in the individual; problems of communication that lead to confusion of meaning and misunderstanding. Psychology of persons who are handicapped in speech, hearing and/or reading, including those with hysterical or psychogenic impairments, and contributions of learning theory and of psycholinguistics.

L 1220 503 LANGUAGE AND COMMUNICATION 3 sh

Examines the influence of psychology, linguistics, and biology on the study of how adults use language and how children learn language. Topics include current theory and experimental research in psycholinguistics, the relation between language and thought, language disorders, development of communication abilities and dialect differences.

L 1220 504 NEUROMOTOR DEVELOPMENT OF THE YOUNG CHILD 3 sh

The study of typical and atypical patterns of neuromotor organization and development, including general principles of stability, mobility, and equilibrium as they influence postural stability. Implications for the educator of the young handicapped child.

L 1220 505 LANGUAGE DISORDERED PRESCHOOLERS: IDENTIFICATION/EDUCATION 3 sh

The study of typical and atypical patterns of language development in the child from the pre-verbal period of infancy to the age of five.

L 1220 506 ASSESSMENT OF PRESCHOOL HANDICAPPED CHILDREN 3 sh

Screening for and assessment of handicapping conditions in children from birth to age five. Techniques and instruments commonly used, administration and interpretation of results of key instruments, and the use of data to write individual educational programs (IEP) and instructional guides.

L 1220 507 IMPLEMENTING PROGRAMS FOR YOUNG HANDICAPPED CHILDREN 3 sh

Principles of learning and teaching applied to the handicapped preschool child. Adaptation of major curricula and implementation of IEPs in various settings.

Prerequisite: L 1220 506

L 1220 508 PARENTS OF YOUNG HANDICAPPED CHILDREN: THE EDUCATOR'S ROLE 3 sh

Methods to help preschool educators cope with parents of handicapped children. Problems of parenting handicapped children. Emotional and legal issues. Skills necessary for intervention.

L 1220 509 SEMINAR IN RESEARCH IN EARLY SPECIAL EDUCATION 3 sh

Research design, statistical analysis, and methods of writing a research paper. Study of significant problems in early Special Education. Evaluation of published research.

Prerequisite: Permission of Graduate Advisor.

L 1220 510 FIELD EXPERIENCES IN EARLY SPECIAL EDUCATION 3 sh

Supervised experience in diverse field settings with typical and atypical preschool children. 75 clock hours of field experience required.

Prerequisite: Permission of Graduate Advisor.

L 1220 511 ADVANCED SPEECH PATHOLOGY 3 sh

Modern techniques of speech rehabilitation and review of research findings in voice, articulation, rhythm and symbolization disorders. Speech rehabilitation integrated with related health services and educational services in schools and special centers.

Prerequisite: Neurophysiological disorders of communication or equivalent course.

L 1220 512 ADVANCED DIAGNOSIS-COMMUNICATION DISORDERS 3 sh

Continuation of diagnosis procedure including tests for multiple handicapped children with communication disorders. Opportunities provided for interviewing parents, testing and report writing.

L 1220 513 PARENT COUNSELING IN COMMUNICATION DISORDERS 3 sh

Parent-child-clinician triad analyzed with emphasis on parent counseling regarding home management of the child, interpretation of diagnostic and therapy findings and referral.

Prerequisite: Psychodynamics of communication disorders or equivalent.

L 1220 514 COMMUNICATION DISORDERS OF AGED 3 sh

Communication disorders associated with pathologies that tend to occur in later life, E.E., aphasia, multiple sclerosis, parkinsonism and cerebral arteriosclerosis.

Prerequisite: Neurophysiological disorders of communication or equivalent course.

L 1220 515 SEMINAR IN VOICE DISORDERS 3 sh

Selected disorders of voice production. Consideration given to etiology, pathology and therapy related to vocal nodules, contact ulcers, paralysis of the vocal cords and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions.

L 1220 522 ADVANCED PHONETICS 3 sh

Skill in use of phonetics in recognizing and distinguishing acceptable English speech sounds, deviant speech sounds, regional variations in standards of American English and sounds in foreign languages. Stress, phrasing and intonation patterns used in speaking English, with some analysis of these elements in other languages.

Prerequisite: Phoenitic study of speech sounds or equivalent course.

L 1220 531 ADVANCED AUDIOLOGY 3 sh

Increased skill in administering tests for pure-tone and speech reception thresholds; evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering; pre- and post-surgical audiometry and special problems of differential diagnosis in testing children.

Prerequisite: Clinical procedures in audiology or equivalent course.

L 1220 532 PRACTICUM IN SPEECH REHABILITATION 3 sh

Practical application of diagnostic and rehabilitative techniques with children and adults who have major speech and language problems. Qualified students participate in specialized laboratory experiences: planning and supervising speech therapy sessions, providing rehabilitative services, interviewing applicants and administering audiometric tests.

Prerequisite: 60 clinical hours in speech practicum.

L 1220 533 SUPERVISION OF SPEECH AND HEARING PROGRAMS 3 sh

Develops skill in supervision of beginning clinicians by experienced therapists; criteria for evaluation, writing critiques and understanding interpersonal relationships that enhance teaching through criticism.

L 1220 534 ADVANCED ANATOMY & PHYSIOLOGY OF THE VOCAL & AUDITORY MECHANISMS 3 sh

Basic anatomy of mechanisms of speech reception and expression; the integrated functioning of the central nervous system, the autonomic nervous system and the endocrine system; abnormalities of structure and function of the speech and hearing processes; medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissection.

Prerequisite: Anatomy & Physiology of speech systems or equivalent courses.

L 1220 535 ADVANCED SEMINAR IN COMMUNICATION DISORDERS 6 sh

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders or organic etiology.

Prerequisite: Permission of Graduate Advisor.

L 1220 536 SEMINAR IN AUDIOLOGY 6 sh

Significant issues in audiology and opportunities for observation and participation in advanced clinical procedures. Minimum of 150 clock hours of practicum experience on and off campus required.

L 1220 537 HEARING AIDS AND HEARING AID SELECTION 3 sh

Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing, aids and ear molds.

L 1220 538 DIFFERENTIAL AUDIOMETRY 3 sh

Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.

L 1220 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3 sh

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

L 1220 540 PRACTICUM IN AUDIOLOGY 3 sh

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: L 1220 538.

L 1220 541 ADVANCED PRACTICUM IN AUDIOLOGY 3 sh

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: L 1220 538.

L 1220 542 IDENTIFICATION AUDIOMETRY AND CONSERVATION PROGRAMS 3 sh

Approaches to identification of hearing problems in school children and hearing conservation programs. Industrial audiology: noise pollution, damage risk criteria and employment-connected hearing disability.

L 1220 561 CLINICAL PRACTICUM IN TEACHING THE DEAF 3 sh

Observing and teaching in a school or program for the deaf. Required of students who have little or no previous experience. Total of 125 hours must be completed with no more than 35 hours credited for previous experience elsewhere.

L 1220 569 TEACHING TOTAL COMMUNICATION TO THE DEAF PART I 3 sh

This course is the first part of a 6 s.h. sequence. It is designed to provide students with a general orientation to all aspects of communication as it relates to deafness. The role of total communication within the educational setting will be explored in depth and students will develop basic skill in manual communication.

L 1220 570 TEACHING TOTAL COMMUNICATION TO HARD OF HEARING & DEAF II 3 sh

Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.

Prerequisite: L 1220 569.

L 1220 571 METHODS OF TEACHING THE DEAF AND HEARING IMPAIRED 3 sh

Pre-school to the adult level, with emphasis on language development and compensatory learning.

L 1220 572 SPEECH SCIENCE AND INSTRUMENTATION 3 sh

Analysis of speech production and reception through use of equipment designed to measure selected features of the communication process.

L 1220 574 PSYCHOLOGY OF DEAFNESS 3 sh

Effects of deafness and hearing loss on the intellectual, social and emotional development of the child; congenital and acquired hearing loss and the behavior of hearing members of the client's world.

L 1220 575 LANGUAGE DEVELOPMENT FOR THE DEAF 3 sh

Communication problems of the deaf with emphasis on application of psycholinguistic theory to development of language skills.

L 1220 576 AURAL REHABILITATION FOR ADULTS 3 sh

Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.

L 1220 578 SEMINAR IN RESEARCH IN THE HARD OF HEARING AND DEAF 3 sh

Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental design.

L 1220 580 DIAGNOSIS AND CORRECTION OF CHILDREN WITH LEARNING DISABILITIES I 3 sh

Conceptual model of learning disabilities; parameters of the diagnostic evaluation of the child who is failing in school. Tests demonstrated; students trained in analyzing results and prescribing individualized educational plans.

L 1220 581 DIAGNOSIS AND CORRECTION OF CHILDREN WITH LEARNING DISABILITIES II 3 sh

Continuation of 1220 580. Developing instruction plans from diagnostic data. Parameters of managing learning; disabled children within and outside the regular classroom; consultation techniques for use with classroom teachers.

Prerequisite: L 1220 580.

L 1220 582 REMEDIATION OF BASIC SKILLS (METHODS AND MATERIALS) 3 sh

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school.

Prerequisite: L 1220 580, 581.

L 1220 583 LANGUAGE DISORDERS OF CHILDREN 3 sh

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood aphasia, deafness, retardation and emotionally problems.

Prerequisites: 1220 50 or equivalent for speech pathology majors, 1220-580 for learning disabilities majors.

Prerequisites: L 1220 5000R, L 1220 5800R

L 1220 584 CLEFT PALATE AND ORAL DEFORMITIES 3 sh

Etiology and characteristics of cleft palate and oral deformities of malfunctions in children; speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

L 1220 585 STUTTERING 3 sh

Principles and methods of speech therapy with children and adults who stutter. Methods of evaluation, specific techniques for speech therapy, and principles coordinating speech therapy with home and school life.

L 1220 586 EDUCATION OF THE HANDICAPPED 3 sh

Role of the teacher on the professional team, state and federal legislation relating to handicapped children and adults and community resources for the special child.

L 1220 589 SEMINAR IN RESEARCH IN LEARNING DISABILITIES 3 sh

Significant problems in field of learning disabilities investigated, and published research projects evaluated. Critical analysis and experimental design.

Prerequisites: Permission of graduate advisor and L 1220 580, 581, 582.

L 1220 590 PRACTICUM IN LEARNING DISABILITIES 3 sh

Clinical diagnosis and teaching of children with learning disabilities. Supervision by departmental staff is given to fulfill the 150 hour requirement. Arrangements can be made for both on-campus and off-campus experiences. (Matriculated L.D. Majors).

Prerequisites: L 1220 580 (Instructors Permission); L 1220 581, L 1220 582.

L 1220 591 ORGANIZATION AND ADMINISTRATION OF COMMUNICATION DISORDERS PROGRAMS 3 sh

Problems of organizing and administering a comprehensive speech program in a school system: curriculum development, teacher-administration relationships, class scheduling, reports and records, in-service training and integration of the speech program with the total school curriculum.

L 1220 592 SEMINAR IN RESEARCH IN SPEECH PATHOLOGY 3 sh

Significant problems in the field investigated and published research projects evaluated. Critical analysis and experimental design.

Prerequisite: Permission of Instructor.

L 1220 593 SEMINAR IN RESEARCH AUDIOLOGY 3 sh

Significant problems in the field of audiology, evaluation of published research projects, critical analysis and experimental design.

Prerequisite: Permission of Instructor.

L 1220 594 INDEPENDENT STUDY 1-3 sh

Students select an area of Communication Sciences and Disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation.

Prerequisite: Permission of Instructor.

L 1220 595 MEDICAL AND PHYSICAL BASIS OF LEARNING DISABILITIES 3 sh

Critical dimensions of the neurological and physiological growth of the child. The scope and meaning of the pediatric and neurological examination and relevance of medical data to explain learning disorders. Aspects of drug and nutritional therapy will be explained.

L 1220 596 SEMINAR AND PRACTICUM IN LEARNING DISABILITIES 3 sh

The course is designed to help students meet the requirements for state certification. Under supervision students will administer and interpret educational instruments and coordinate assessment data into prescriptive reports and programs. Seminars will deal with current issues and practices in the field.

Prerequisites: L 1220 0590, 582, 581, 580; L 1220 580, Majors only; L 1220 581, Instructors Permission; L 1220 582, Work in field.

L 1220 597 PRACTICUM AND SEMINAR IN TEACHING HANDICAPPED CHILDREN 6 sh

Direct experience in teaching children who are intellectually, physically, emotionally and/or developmentally handicapped, in a controlled internship program. Analysis and implementation of individualized education programs developed by child study teams. 90 clock hours of direct clinical teaching and participation in class seminars, conferences, and planning sessions.

Prerequisite: Permission of advisor.

L 1220 620 ORIENTATION AND OBSERVATION IN SPECIAL EDUCATION 2 sh

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers or special class guest lecturers.

NEW JERSEY SCHOOL OF CONSERVATION

The New Jersey School of Conservation is the Environmental Education Field Campus of Montclair State College and is the largest such facility in the western hemisphere. The School of Conservation is located fifty-seven miles from the main campus on a 240 acre tract located in the center of Stokes State Forest in Sussex County. Administratively, it is part of the School of Professional Studies.

The programs at the School of Conservation are designed to provide the students with a greater understanding and appreciation of the role natural areas play as part of a life support system. The resident programs provide environmental field experiences in the humanities, social studies, outdoor pursuits, and the natural physical sciences. Each academic year the School provides resident environmental education programs for over 9000 elementary/secondary school students, and 2000 teachers from 160 schools. There are also several field courses provided for undergraduate students. In addition, there are four weekend workshops held each academic year designed to train classroom teachers and youth leaders in Environmental Education curriculum development and field techniques for programs in Environmental Education. The workshops are held in September, February, May and June. Each workshop carries one semester hour of undergraduate or graduate credit. During the summer, the School offers several ten-day courses at the graduate level for teachers pursuing advanced degrees in Environmental Education and related fields.

1 0843 460 PRACTICUM IN ENVIRONMENTAL EDUCATION 3 sh

This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion.

1 0843 462 ADMINISTRATION AND SUPERVISION OF ENVIRONMENTAL FIELD STUDY 3 sh

This course is designed to provide practical experience in the solution of problems in planning, supervising, and administering a field experience in Environmental Education. Among the phases considered are those of a historical perspective in the evolution and development of the movement combined with current practices. Discussions will include staff selection and supervision, program development, kitchen management, budgeting and financing, and general administrative procedures.

**1 0843 500 CURRICULUM DEVELOPMENT IN
ENVIRONMENTAL EDUCATION**

3 sh

The historical, philosophical and conceptual aspects of developing a K-12 Environmental Education curriculum. The focus is on the four major curriculum areas: humanities, social studies, science and outdoor pursuits, with proposed activities for the classroom, school grounds, community and natural areas, intended to enhance the student's awareness of environmental problems and their possible solutions.

**1 0843 501 OUTDOOR TEACHING SITES FOR
ENVIRONMENTAL EDUCATION**

3 sh

This field-oriented course will include a working definition of outdoor environmental teaching sites as they relate to current developments in Environmental Education. Various types of outdoor environmental teaching sites will be reviewed, together with their inherent values for Environmental Education. Integration of school sites, and their associated use, into ongoing school curricula will be stressed. Also incorporated, through lecture, discussion, and field activities, will be pertinent information on the philosophy, design, construction, and use of outdoor environmental teaching sites, with special emphasis on sites which can be developed on land areas adjacent to schools. Opportunities will exist for individualized and group project work on actual outdoor site development, plus the preparation of teaching materials, lesson plans, etc., to be used in conjunction with outdoor environmental teaching sites.

1 0843 502 AMERICAN HERITAGE SKILLS

3 sh

This course will focus on the home life style of the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas. The colonial living skills will be integrated into a general overview of the two-hundred-year time period under consideration, rather than as isolated elements. Field trips to various historic sites will be part of this course. Students will become involved in individual and/or group projects. This course will provide an opportunity for teachers to integrate these skills into an elementary or junior high school social studies curriculum.

1 0843 503 HUMANITIES AND THE ENVIRONMENT

3 sh

This course will focus on the cycle of man's relationship to nature, based on three sequential stages: 1) Man in Nature, in which archaic religions, myths and legends will be investigated; 2) Man vs. Nature, which will be a consideration of the alienation due to the influence of science and technology; and 3) Man and Nature, which will consider the new mysticism of today. The course work will include lecture, discussion, seminar and independent study.

**1 0843 504 FIELD TECHNIQUES FOR TEACHING
THE HUMANITIES**

3 sh

The focus of this course will be the development and improvement of techniques for teaching the humanities via the natural environment. The course will include consideration of the process of communication, the development of perceptual and observational skills, creative writing, literature interpretation, music, philosophy, dramatics, art, as well as historical investigations and consideration of past ways of life through the study of colonial "crafts". Course work will include lecture, demonstration, discussion, field trips to aesthetically and historically significant areas, field investigations, independent study, and opportunities for development of the student's individual skills, especially in the areas of creative expression.

1 0843 505 SOCIETY AND THE NATURAL ENVIRONMENT 3 sh

An overview of the principals of ecological interaction of biological systems as they relate to the biosphere. An attempt to show cause and effect relationships between these ecological principals and the action of human societies which have lead to the present environmental crisis.

**1 0843 495 WORKSHOP UTILIZING NATURAL
ENVIRONMENTS**

1 sh

Provides classroom teachers with a basic understanding of how natural environments may be used to supplement classroom experiences in natural science, social studies, humanities and outdoor pursuits.

**1 0843 496 FIELD STUDIES IN HUMANITIES AND
NATURAL SCIENCE**

1 sh

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

**1 0843 497 FIELD STUDIES IN SOCIAL STUDIES
AND OUTDOOR RECREATION**

1 sh

Provides teachers in various subject areas with an understanding of how outdoor pursuits and social studies may be taught through a utilization of natural environments in order to develop an environmental sensitivity.

COUNSELING, HUMAN SERVICES, AND GUIDANCE

Chairperson and Graduate Advisor: Dr. Arlene King

Counseling, Human Services and Guidance are an integral part of the American scene. Schools and colleges, community agencies and industry, and state and federal governments have all developed services to aid students, workers and others to adjust to a changing society. Montclair State College has been a leader in the preparation of professional personnel to staff these efforts, in developing programs to identify new areas of counseling services, and in providing new approaches to the training of counselors and human services personnel.

From the initial core of four basic courses through the field-work experience of 150 hours, the department offers courses to train counselors and human service personnel to work with inner-city youth, black and Hispanic communities, women, veterans, prisoners, reentry adult learners, drug and alcohol abusers, as well as the more traditional roles in public school guidance and social work. An initial core program, consisting of four courses applicable to all specializations offered by this department, is required of all students entering the program.

After this core is completed, the student and an appointed faculty advisor will work out an individual program designed to meet his/her particular interests and needs. Specialized programs can be designed for the teacher interested in learning more about affective education, for the person whose sights are on counseling at the college level, for the manager who wants to know more about organizational development, and for many other individual cases.

CERTIFICATION PROGRAMS

Although members of the department are involved in serving these special interests, we shall continue to emphasize state certification programs for guidance counselors and school social workers. Both of these state certifications require additional credentials. The Student Personnel Services Certification for guidance counselors requires a teaching certificate and one year of full time teaching experience under certification. Those wishing to be certified as school social worker must have a minimum of 3 years of teaching experience or 3 years of experience in social work under approved supervision. Students should consult their graduate advisor for specific certification requirements for both of these programs. Courses are also available for persons seeking certification as Director of Pupil Personnel Services.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COUNSELING, HUMAN SERVICES, AND GUIDANCE

- I. Core Courses 12 sh
 Required of all students regardless of specialization
 - 564 Dynamics of Group Process 3 sh
 - 577 Counseling Theories 3 sh
 - 588 Techniques of Interviewing and Counseling 3 sh
 - 503 Methods of Research 3 sh
- II. Electives in the Social and Behavioral Sciences 9 sh
 These will be decided by the student and advisor after the satisfactory completion of the four core courses and after a decision has been made as to the specialization desired.
- III. Specialization requirements 15 sh
 These courses will be decided after the four core courses have been completed, and the student has decided upon a specialization. Here are a few of the choices available:
 - (a) State Certification Program in Guidance and Counseling
 - (b) State Certification Program in School Social Work
 - (c) Dual Certification Program for both Guidance and Counseling and School Social Work (one additional course required)
 - (d) Human Services which permit such areas of specialization as:
 - Individual Counseling
 - Affective Education
 - Human Resources and Organizational Development
 - Counseling in Higher Education
- IV. Fieldwork 3 sh
 Depending upon concentration: 654, 655, 656, 657.
 The fieldwork in each concentration consists of a field placement approved by the Fieldwork/Practicum instructor. A minimum of 150 hours of observation and contact with clients at the field site is required. The student will be supervised by a qualified person on the site; a faculty member from the college will make periodic visits to discuss the fieldwork with the student and the supervisor.
- V. Comprehensive Examination or Thesis
 Nearing completion of the program, the student will register for the comprehensive examination given in the Fall or the Spring. Students selecting the thesis option should register for 0826 650 Research Seminar and Thesis Writing.

COUNSELING, HUMAN SERVICES, AND GUIDANCE

Course Descriptions

2 0826 551 GUIDANCE AND CAREER EDUCATION IN THE CLASSROOM 3 sh

This course is designed for teachers, counselors and counselors-in-training who are concerned with both guidance and the means of implementing career education/life planning within the classroom. The course emphasizes the role of the teacher and counselor in classroom guidance and career education/life planning. Field visits may be included in this course.

2 0826 560 MEDICAL PROBLEMS IN EDUCATION 3 sh

In this course, the role of the educator is studied in relation to the following subject areas: childhood, chronic and contagious diseases, nutritional problems, narcotics and psycho-socio-medical pathologies. The impact of health problems on the family, school and community is emphasized throughout. Required for certification in school social work.

2 0826 562 SOCIAL CASE WORK I 3 sh

This course reviews principles in social case work as they relate to the school setting and social agencies. Study is devoted to the theoretical development of social work norms, and to the functional role of the social worker on cases which have been developed by social workers will be studied and experience in a social work setting will be provided. Required for certification in school social work.

2 0826 563 SOCIAL CASEWORK II 3 sh

This course is a continuation of Social Casework I on a more advanced level. It entails critical examination of major social work methods in diagnosis, social functioning and relevant intervention techniques appropriate for the social treatment of individuals. Required for certification in school social work.

Prerequisite: 2 0826 562 or equivalent.

2 0826 564 CASEWORK WITH CHILDREN 3 sh

The broad, generic approach will embrace problematic situations, not only within the school setting, but in a variety of areas as well. By means of case studies, special outside lectures, text materials, visits to child-serving agencies public and private, together with a comprehensive research assignment, the student will become better equipped to deal effectively with especially difficult cases requiring professional sophistication and dedication.

Prerequisite: 2 0826 562 or equivalent.

2 0826 565 ROLE OF SCHOOL SOCIAL WORKER 3 sh

This course examines the historical development of social work in a school setting, its functional relationship to other supportive services, e.g. child study team, guidance and counseling and administration. Implicit in this course is the understanding of “brief casework” as the primary treatment tool for problem solving and the importance of social diagnosis, knowledge of and ability to relate to community resources, consultative and referral skills and ability to function in a non-social work setting.

2 0826 569 CASEWORK TREATMENT IN THE CONTEXT OF THE FAMILY 3 sh

Course is a study of objectives and characteristics of family treatment and the caseworker's use of self within the context of the family. Relevant concepts about the family as a social system, interactional processes, role structure and conflicts, individual psychodynamics and situational variables are examined in terms of family diagnosis and treatment techniques within the framework of the family as seen in the literature and practice. Prerequisites: 2 0826 562 crs. in similar field, 2 826 563 crs. in similar field, 2 0826 570.

2 0826 570 COUNSELING ADULTS 3 sh

This course is designed to identify the special needs of adults as they seek counseling. Special attention is given to the counseling needs of college students, adults returning to academic environs, women, minority groups, the handicapped, and other adults with special needs. Case studies, field visits, and supervised practice will be basic techniques employed.

Prerequisite: 2 0826 577.

2 0826 571 PEER COUNSELING 3 sh

An advanced course dealing with the concept and experience of peer counseling. The development, organization, implementation, and evaluation of peer counseling programs and activities. This course involves lectures, seminars, and laboratory experiences. In the laboratory, students counsel each other. In seminar, they evaluate their peer counseling activities.

2 0826 572 SELF-CRITIQUING FOR IMPROVED COUNSELING COMPETENCE 3 sh

Presentation of a theory and system for improving one-to-one counseling through a process of self-critiquing tape recorded interviews of counseling sessions conducted by course participants. Specific counseling behaviors are identified and examined and strategies are developed leading to the attainment of individual behavioral goals.

Prerequisites: 2 0286 588 or equivalent; 2 0826 588 crs. in similar field.

2 0826 577 COUNSELING THEORIES**3 sh**

Entails a comprehensive study of the major schools of thought in psychotherapies, existentialism, Rogerian psychology, rationale and motive, and psychoanalysis, among others, studied in the context of social work, counseling, and psychological practice. Emphasis is in helping prospective human service professionals in recognizing that different theories are effective not because of their unique elements, but because in practice they include the basic common elements of all theories.

2 0826 579 THE USE OF TESTS IN COUNSELING**3 sh**

This course is designed to familiarize counselors and school social workers with techniques for use and interpretation of test results. Implicit in this course will be the use of appropriate statistical analysis to draw conclusions for research and program development. Laboratory techniques will be used to give students practical opportunities to administer, score, and interpret a group of tests. Some time will be devoted to the planning of testing programs.

2 0826 580 PRINCIPLES OF GUIDANCE AND COUNSELING**3 sh**

Topics included in this course cover: philosophy of guidance, history of the guidance movement, the need for guidance and counseling presented by children, adolescents and adults. The methods of gathering useful data are studied; records, exploratory activities, tests, inventories, the case study approach, occupational information, and occupational data are treated, as well as general methods of guidance with special stress on interviewing and counseling of students utilizing both individual and group modalities. Field visits may be included in this course.

2 0826 581 COMMUNITY RESOURCES**3 sh**

This course deals with the various agencies, industries and institutions available in the surrounding communities for use in guiding and referring clients. In addition to becoming familiar with the location and nature of these facilities, students learn the techniques for arranging client interviews and visits. Class discussion and personal research are supplemented by field trips.

Prerequisites: 2 0826 580 or 2 0826 577.

2 0826 582 CAREER GUIDANCE AND OCCUPATIONAL INFORMATION**3 sh**

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training.

Prerequisite: 2 0826 580 or 2 0826 577.

2 0826 583 EDUCATIONAL GUIDANCE 3 sh

This course is concerned with the facilities available for education after high-school graduation, the problem of further training for pupils leaving school before completing high school programs of alternative education, and the academic problems of students while in school. A brief survey of colleges and college-admission procedures is made.

Prerequisite: 2 0826 580 or 2 0826 577.

2 0826 584 GROUP COUNSELING: THEORY AND PRACTICE 3 sh

Course is designed to familiarize counselors, social workers and other practitioners with the use of group counseling methods for the facilitation of personal growth; the treatment of social and emotional disorders; and the socio-emotional education and enrichment of the individual. Entails examination of the historical and cultural context for group methods. Emphasis on diagnosis, group membership, group process, relevant social, psychological and educational theories in group behavior, treatment and strategies.

Prerequisite: 2 0826 577.

2 0826 585 GROUP GUIDANCE AND COUNSELING ACTIVITIES 3 sh

This course places emphasis on the distinctions between guidance and counseling techniques and the appropriate group activities for each purpose.

Prerequisite: 2 0826 580.

2 0826 586 ELEMENTARY SCHOOL GUIDANCE SERVICES 3 sh

This course is designed for elementary and middle school teachers and counselors-in-training who are concerned with supportive services related to human growth and life planning as a developmental process for their students. Special attention is given to the identification of problem areas and referral services.

2 0826 587 ADMINISTRATION AND SUPERVISION OF GUIDANCE PROGRAMS 3 sh

Developing and administering programs of student registration, theory and techniques of scheduling, and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district or agency. Examination of current guidance practices, and formation of proposals for improvement in programs where the student is working as a counselor and/or director.

Prerequisite: Certification in Student Personnel Services.

2 0826 588 TECHNIQUES OF INTERVIEWING AND COUNSELING 3 sh

Included in this course are techniques applicable to the interviewing and counseling of individuals and small groups. Directive as well as client-centered approaches are utilized. Specific attention is given to techniques such as role-playing, case studies, and audio/video tape feedback.

Prerequisites: 2 0826 580 or 2 0826 577.

2 0826 589 STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION 3 sh

This course is a study of the student personnel functions in two-year and four-year colleges. The areas to be included are: personal counseling, financial aid, dormitory management, health programs, student activities and social programs; course selection, job placement, college admission and academic retention, and administration and supervision of the program.

2 0826 601 WORKSHOP IN EDUCATION GUIDANCE 3 sh

Students will be exposed to experiences designed to reinforce previous leadership and membership skills. They will have the opportunity to develop, carry out and evaluate a project concerned with small groups. Students may work singly or in groups to carry out their project designs.

2 0826 650 RESEARCH SEMINAR & THESIS WRITING 3 sh

During the time that the student is preparing the research document, she/he should enroll in 0826 650, thesis supervision. This entitles her/him to faculty advisement and conferences. If the student does not complete the document during the semester in which she/he enrolled for 0826 650, she/he is required to re-enroll in 0826 650 each semester (without credit) until the document is completed.

2 0826 652 COUNSELING THE FAMILY 3 sh

This course provides the opportunity for students to gain practical experience in leading family counseling sessions. Students will be expected to lead these groups with staff members and to be available to assist in all learning endeavors.

Prerequisite: Instructors Permission.

2 0826 654 FIELD WORK/PRACTICUM IN GUIDANCE AND COUNSELING 3 sh

The aim of the course is to introduce the student to various aspects of guidance and counseling through experience in schools and/or agencies actually dealing with such problems. Students observe and participate in activities of the agencies to which they are assigned and write full accounts of these observations and experiences. Some time is spent in discussing and evaluating these experiences and relating them to the literature of the subject.

Prerequisites: 21 sh in master's degree program, Permission of Department Chairperson.

2 0826 655 FIELD WORK AND PRACTICUM IN SOCIAL WORK 3 sh

The student will be provided with an opportunity to participate in school social work in an actual school situation. Diagnostic skills, interviewing techniques, case recording, individual and group therapy, and the team approach will be observed and discussed. Under the guidance of a certified, experienced school social worker, the student will develop an understanding of the use of community resources. The student will be given an

opportunity to observe special services (school social worker, psychologist, psychiatrist, speech or reading specialist, and teacher) in action as together a therapeutic plan is developed for the school pupil.

Prerequisites: 21 sh and approval of department chairman.

2 0826 656 PRACTICUM: GROUP COUNSELING 3 sh

An advanced course for those practicing group leaders who wish to enhance their group-leading skills. The students will meet and discuss their concerns and experiences. In this way they will be able to reinforce their present beliefs, have an opportunity to explore others' values and evolve alternative ways of working with groups.

Prerequisites: 2 0826 585, Instructors Permission; 2 0842 564 or 2 0842 569.

2 0826 657 SUPERVISED FIELDWORK IN COUNSELING/SOCIAL WORK 3 sh

Combined field work experience for students enrolled in dual certification program.

Prerequisites: 21 sh and permission of Department Chairperson.

2 0826 660 SELECTED PROBLEMS IN COUNSELING HANDICAPPED PERSONS 3 sh

This course presents an overview of prevailing laws, attitudes, issues and practices related to the special needs of handicapped persons. Attention is given to identification and understanding of the handicapped, federal and N.J. State Legislation and supportive programs, life/career counseling as particularly relevant to handicapped persons of all ages, and issues and trends in meeting the special needs of the handicapped.

Prerequisites: 2 0826 580 or 2 0826 577 or Instructor's Permission.

2 0826 670 TECHNIQUES OF EVALUATION 3 sh

Provides a background in the design, use and interpretation of statistical evidence.

2 0826 671 THE USE OF SELF-HELP PROCEDURES IN COUNSELING 3 sh

This course provides students with the opportunity to review, in a laboratory setting, the vast array of self-help materials and procedures available to the general public. Through experiential application, students will become familiar with step-by-step procedures, appropriate application and evaluation of self-help materials in the counseling process.

Prerequisites: 2 0826 580 or 2 0826 577 or Instructors Permission.

2 0826 672 COUNSELING THE AGING 3 sh

This course deals with the long-range preventive counseling and crisis intervention in critical stages of the aging process. Covered are such topics as job change, economic upheaval, sexuality, changing family structure, chronic illness, and death and dying.

Prerequisite: At least 1 year counseling experience or permission of Department Chairperson.

2 0826 673 COUNSELING FOR SEX EQUALITY 3 sh

This course is designed to help the student become more aware of the overt and more subtle aspects of sex inequality in our culture, the need for individual and group counseling strategies to overcome sex bias, and the development of counseling skills needed to implement these strategies.

2 0826 680 STUDENT PERSONNEL SERVICES TEAM 3 sh

Establishing the philosophy, membership, roles and functions of the various services that compose the personnel services team.

2 0826 682 SEMINAR IN ADVANCED CAREER GUIDANCE 3 sh

This seminar offers participants an in-depth exposure to such topics as latest sources and methods of utilizing career information, use of tests in career guidance, and theories of career development and their application to counseling, and developments in career education as they apply to counselors.

Prerequisites: 2 0826 582.

2 0842 550 ADVANCED PROCEDURES IN GROUP PROCESS FOR SPECIAL SERVICES PERSONNEL 3 sh

This is an advanced course for students who have demonstrated an interest in and an aptitude for the group process through the successful completion of 0826:580 Principles of Guidance and Counseling and 0842:564 Dynamics of Group Processes. This course combines theory with experience. It focuses on the examination of systematic approaches for understanding the role of leadership in counseling-related groups. Each student must make available additional hours on the night the course is offered.

Prerequisites: 2 0826 580, 2 0842 564 or equivalent.

2 0842 564 DYNAMICS OF GROUP PROCESS 3 sh

A laboratory-based course for the development of group skills and understanding. Focus is on experimental learning and personal growth. Readings in human interaction theory will be related to actual group participation.

2 0842 565 CONSULTATION IN ORGANIZATIONAL DEVELOPMENT 3 sh

A laboratory based course which focuses on the role of the organizational consultant. Emphasis on planning, providing help and evaluating activities. Diagnostic and behavioral skills to aid individuals and groups within organizations will be developed. Designed for those considering consultation work in business, industry, government, penology, education and community organizations.

Prerequisites: 2 0842 564 or equivalent.

2 0842 566 FIELD WORK-GROUP LEADERSHIP 3 sh

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students will join an on-going task centered group either as a member or its leader and will make a problem diagnosis, procedural plan and a method of evaluation. In-progress and final reports will be discussed.

Prerequisites: 2 0842 564, Instructors Permission.

2 0842 567 RESEARCH SEMINAR IN GROUP PROCESSES 3 sh

Students develop, carry out and evaluate a research project in small group processes. They work singly or in groups to investigate the application of group work to their major fields of interest.

Prerequisite: 2 0824 564.

2 0842 568 THEORETICAL CONSTRUCTS IN SOCIAL GROUP INTERACTION 3 sh

Problems and current practices in small group interaction, social restructuring and cultural encounter. Survey of literature on the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of the self and others.

2 0842 569 TECHNIQUES AND EXERCISES IN GROUP DYNAMICS 3 sh

A structured experiential course; participating in and evaluating activities and exercises of individuals and work with small groups. Students will modify old designs and create new ones as they compile their own ideas, forms and exercises.

Prerequisites: 2 0842 564, Instructors Permission.

2 0842 570 INTRODUCTION TO AFFECTIVE EDUCATION 3 sh

In this course the focus is on understanding the affective side of the teaching-learning process and its importance to education in general. Through group participation, each student will begin the development of skills for dealing with feelings in the classroom.

2 0842 661 GROUP DEVELOPMENT LABORATORY I 3 sh

Seminar experiences as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisites: 2 0842 564, Instructors Permission.

2 0842 662 GROUP DEVELOPMENT LABORATORY II 3 sh

Seminar experience as a core for advanced study in Organization Leadership. Group participation and periodic opportunities to examine problems of a group and effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisites: 2 0842 564, 2 0842 661 or Instructor's Permission.

2 0842 663 GROUP LABORATORY DESIGN 3 sh

This course will focus on the translation of client needs into designs for programs of experiential and cognitive learning opportunities. Students will study models of programs which have been used for colleges, schools, businesses, and other organizations. They will then discuss the theoretical aspects involved and participate in the planning, carrying out, and evaluation of current laboratories, workshops, and conferences.

Prerequisite: 2 0842 564.

CURRICULUM AND TEACHING

Chairperson: Dr. Catherine Becker

MAT Coordinator: Dr. Susie B. Boyce

Graduate Advisors MAT: Dr. Susie B. Boyce, Dr. Wendy Oxman

*Graduate Advisors, Middle School Philosophy: Dr. Ann Margaret Sharp
and Dr. Matthew Lipman*

Students with a baccalaureate degree and interest in teaching may earn the Master of Arts in Teaching (MAT) and a Teaching Certificate simultaneously. Curricula for standard teaching fields and special urban programs are available.

The program is open to students with undergraduate backgrounds equivalent to a teaching field in one of the following areas: Fine Arts, Business Education (Bookkeeping and Accounting, Distributive Education, General Business Education, Secretarial Studies), English, Foreign Languages (French, Spanish), Home Economics, Industrial Education and Technology, Mathematics, Music, Health and/or Physical Education, Science, Social Sciences, Speech and Theater. Additional undergraduate course work in the student's teaching field may be required to meet certification standards.

Upon successful completion of the program, the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Although students interested in teaching elsewhere should seek information from the appropriate state authorities, requirements are generally similar.

Note: Certification requirements are subject to change.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission and matriculation for the Master's degree, the applicant must file a separate application to the Teacher Education Program by contacting the Graduate Advisor in the School of Professional Studies. Admission to the College cannot be considered admission to Teacher Education.

Criteria considered for admission are:

1. Three recommendations, two of which are from College faculty or school administrators.
2. Verification of demonstrated competence in speech by the Department of Speech and Theater.
3. Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the aptitude section of the Graduate Record Examination. For those whose native language is other than English, the TOEFL Examination may be substituted.
4. Evidence of active interest in community affairs and teaching.

5. Clearance by the Student Personnel Division (For MSC BA/BS graduates only).

6. Endorsement of the Teacher Admissions Committee (Departmental and School).

Advisement

Persons interested in the program may secure information from their designated advisors. Upon acceptance, the student will be assigned an advisor who will cooperatively develop a formal program of course work with a Departmental (teaching field) advisor and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for certification programs. For further information on certification, see page 185, under Approved Certification Programs Non-Degree Post-Baccalaureate/Post M.A.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN TEACHING

- I. Professional Sequence 13-15 sh
- A. Prerequisites
- 2001 101 General Psychology I, Growth and
Development 3 sh
(undergraduate credit only)
- 2001 200 Educational Psychology 3 sh
(undergraduate credit only)
- 0830 407 Development Reading: Principles and
Techniques I 3 sh
- 0830 408 Developmental Reading: Principles and
Techniques II 3 sh
- 0829 410 Field Experience in Education,
or equivalent 1-3 sh

Note: All students must satisfy the course requirement in the Human and Intercultural Relations area. The course to meet this requirement must be selected from the approved list or its equivalent in consultation with the advisor.

- B. Required Courses 9 sh
- 0829 400 Teacher, School and Society* 3 sh
- 0821 520 Development of Educational Thought 3 sh
- *May be taken concurrently with courses in Area V.
- II. Education Sequence 12 sh
- A. 0842 564 Dynamics of Group Processes 3 sh
- 0842 503 Methods of Research 3 sh
- B. Other education electives 6 sh
- Graduate courses not specifically designed for preparation or certification in some other areas of education may be selected with approval of the Departmental Advisor.

If, in the opinion of the Dean of the School, the student has essentially achieved the objectives of part of the program, that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.

- III. Teaching Discipline Courses 6-9 sh
Graduate courses in the teaching discipline which are covered by the certificate or serve other needs and interests of the students are selected with approval of the Departmental Advisor.
 - IV. Cultural Electives 3-6 sh
With approval of the advisor, the student selects courses to extend or broaden his general education.
Note: Areas III and IV must total at least 12 credits.
 - V. Field Experience (Practicum) 10 sh
 - 0829 411 Supervised Student Teaching 8 sh
 - 0829 402 Seminar in Professional Education 1 sh
 - 0829 401 Senior (Community) Field Experience 1 sh
- Minimum: 43 semester hours

NOTES:

1. These requirements in effect for students matriculated after April 1976.
2. The program requires a comprehensive examination. This requirement may be completed in conjunction with a three credit course (0829 600 MAT Seminar Related Instructional Thought & Practices) designed to prepare candidates for the examination. See Graduate Advisor for information.

MASTER OF ARTS CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

The M.A.T. Concentration in the Teaching of Middle School Philosophy is designed for candidates who have a liberal arts degree with a major in philosophy, and who are interested in teaching thinking skills to children. In view of the growing awareness of the importance of thinking skills to the educational process, and in view of the high regard in which the philosophy for children program has come to be held by educators and parents alike, proficiency in teaching children philosophy, as attested by this degree, will strong recommend such individuals to school districts seeking teachers of thinking skills. The degree is offered by the Department of Curriculum & Teaching in cooperation with the Institute for the Advancement of Philosophy for Children.

Students attend two full semesters at Montclair State College, plus two summer residential sessions. In order to complete requirements for the degree, students take 36 credits in philosophy for children, psychology, social theory and pedagogy. An additional 10 credits enables the student to acquire actual teaching experience in a classroom setting, teaching philosophy to children under observation. Follow-up seminars designed to aid students reflect upon and analyze their teaching experience are provided by the professional staff. Such seminars also assist students in developing more effective strategies for fostering and improving children's reasoning skills.

Certification

Students will be certified K-12 as New Jersey public school teachers in disciplines other than philosophy, since philosophy is not presently a certificate discipline in New Jersey. Before commencing the degree program, each student should identify the department and courses required for certification by consulting with departmental advisors to discover the disciplinary certification requirements of the department involved. The graduate courses required for the M.A.T. degree are also credited towards K-12 teacher certification in N.J.

Admission Requirements

In addition to the admission requirement for graduate students at M.S.C., students are expected to have a strong background in the liberal arts, with an undergraduate major in philosophy or the equivalent and 6 credits in psychology. Courses in the history of philosophy and logic are particularly desirable. An overall average of 3.0 in undergraduate work, Graduate Record Examination scores and an interview are required.

More generally, it is recommended that prospective candidates be individuals who enjoy discussing ideas, who empathize with children's needs and interests, and who are sure they want to work with children in educational contexts.

Examinations

All candidates for the M.A.T. Concentration in the Teaching of Middle School Philosophy must pass the Institute's Comprehensive Examination, given each year in May. Applications for this examination must be made in writing to the Graduate Advisor by March 1 of the year in which the examination is to be taken. Candidates are examined in pedagogy, thinking skills, and the relationship of both philosophy and psychology to the teaching of reasoning.

REQUIREMENTS FOR THE M.A.T. CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

9 4999 9510	Teaching Philosophical Thinking Skills to Children I & II	6 sh
9 4999 9511	Teaching Philosophical Thinking Skills to Children III	3 sh
3 0821 9521	Contemporary Educational Thought	3 sh
1 0829 0400	Teacher, School and Society	3 sh
1 0829 0401	Senior Field Experience	1 sh
1 0829 9521	Seminar: Problems of a Classroom Teacher	1 sh
9 4999 9512	Value Thinking Skills for Children	3 sh
1 0829 0414	In-Service Supervised Teaching I	4 sh
9 4999 9513	Social Thinking Skills for Children	3 sh

U 2208 9560	Sociological Theory	3 sh
T 2001 9560	Advanced Educational Psychology	3 sh
1 0829 0415	In-Service Supervised Teaching II	4 sh
9 4999 9614	Scientific Thinking Skills for Children.....	3 sh
9 4999 9615	Teaching Reasoning to the Disadvantaged	3 sh
3 0821 9581	Foundations of Reflective Education	3 sh
Comprehensive Examination		Minimum: 46 sh

CURRICULUM AND TEACHING

Course Descriptions

1 0829 510 SCHOOL VIOLENCE AND VANDALISM: PROBLEMS AND SOLUTIONS 3 sh

The course will provide students with a sufficient knowledge base to understand school vandalism and violence, and its ramifications, and offers practical methodologies and techniques that will enable them to apply this knowledge to practical situations. Course activities will provide students with the needed skills to suggest or conduct controlled experiments, for particular problems, in school districts.

1 0829 521 SEMINAR: PROBLEMS OF A CLASSROOM TEACHER 1 sh

Reviewing, evaluating and relating teacher-aide and student teaching experiences to initial employment as a teacher. Analyzing strengths and weaknesses and making adaptations in techniques and practices. Should be taken concurrently with or immediately after field experience.

1 0829 522 INNOVATIONS IN TEACHING 3 sh

New media and strategies, novel teaching roles, individualized instructional programs, classroom group dynamics and experimental school organizations. Team teaching utilized where feasible. The student prepares an innovation proposal.

Prerequisite: At least one year of teaching experience.

1 0829 523 EDUCATION IN THE INNER CITY 3 sh

The urban school through the eyes of city youngsters, and teachers and other educational personnel. Influences of social and economic forces; poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluations of federal and other projects, innovative teaching and local action. Student prepares a proposal for improvement of an urban school situation.

1 0829 525 INNOVATIVE DEVELOPMENTS IN EDUCATION: 6 sh
CONTEMPORARY PROGRAMS

A combination of a survey and in-depth analysis of innovations in the educational realm. The course will focus on the availability of resources and experts in the field. Demonstrations, lab workshops and presentations by people currently involved in innovative programs emphasized in addition to the study of numerous innovative areas.

1 0829 530 PRINCIPLES OF CURRICULUM DEVELOPMENT 3 sh

Philosophic, social and economic forces in our society that have determined and will determine the pattern of curriculum of education in the American public schools from K-12 grades. Accepted manner of designing such curricula and professional bodies and individuals who play leading roles in the process of curriculum design. Connection of community interest and power structures in society which are related to the professional decisions.

Prerequisite: 1½ years of teaching experience.

1 0829 531 CURRICULUM CONSTRUCTION IN THE 3 sh
ELEMENTARY SCHOOL

Reviewing and bringing up to date basic curriculum development concepts; curriculum construction in a modern elementary school; creating an elementary school curriculum in a specific field for one or more grade levels.

Prerequisite: 1 0829 530.

1 0829 532 MIDDLE SCHOOL CURRICULUM AND 3 sh
ORGANIZATION

Emerging curriculum of the rapidly-developing middle school. Organization of pupils, instruction, media and facilities. Recent social changes and educational innovations; practices in typical middle schools; developing instructional strategies.

Prerequisite: 1 0829 530.

1 0829 533 CURRICULUM CONSTRUCTION IN THE 3 sh
SECONDARY SCHOOL

Secondary school curriculum and the needs of a changing civilization. Effective means of curriculum construction.

Prerequisite: 1 0829 530, majors only.

1 0829 534 STRATEGIES FOR CURRICULUM CHANGE 3 sh

Principles and concepts from sociology, social psychology, educational administration and curriculum applied to education. Opportunity to develop change strategies for particular field settings.

Prerequisite: 1½ years of successful teaching experience under certification.

1 0829 535 DESIGNING CURRICULUM FOR AFFECTIVE AND HUMANISTIC EDUCATION 3 sh

The design and implementation of curricular approaches to emotion and process phenomena in the school; evolution, theory and current practice experientially evaluated. Workshops to devise original design models, and simulative and micro-teaching sessions to demonstrate competence in their application.

Prerequisites: 1 0829 530, and educational psychology.

1 0829 536 CURRICULUM AND TEACHING IN CAREER EDUCATION PROGRAMS 3 sh

Overview of the broad objectives and philosophical bases for career education programs; analyses of selected case studies of career education programs in existence; analysis and evaluation of the process of curriculum development in career education programs; evaluation of selected resources and instructional strategies used in career education programs.

1 0829 537 THE STUDY OF TEACHING 3 sh

The teaching process, the varieties of teaching models and metaphors, underlying philosophical considerations and the relationship between teaching and learning outcomes.

Prerequisites: 3 years teaching experience.

1 0829 538 DISCIPLINE AND GROUP MANAGEMENT IN THE CLASSROOM 3 sh

Course designed to enable teachers to more effectively manage classroom behavioral problems. Classroom management will be examined as distinct from and requisite for effective instruction. Several unified managerial approaches will be studied. Course will culminate with opportunities to practice the selection and application of specific managerial techniques to a range of simulated classroom situations.

Prerequisite: Course in educational psychology.

1 0829 540 TEACHER CONSTRUCTION OF TESTS AND EVALUATION 1 sh

To provide the student with the opportunity to become knowledgeable and skillful concerning test and scale construction.

1 0829 541 INDIVIDUALIZED LEARNING 1 sh

To help the teacher develop materials and techniques which will help him/her to make adaptations to the needs of individual students.

1 0829 542 CURRICULAR RELEVANCY 1 sh

To study the relationship of the school structure, and curricular and teaching practices, to the problem of making education meaningful and significant to the student.

1 0829 545 THEORY AND PRACTICE OF TEACHING THE BILINGUAL CHILD IN CONTENT AREAS 3 sh

Ethodology, and teaching the bilingual student in content areas, i.e., social studies, language arts, mathematics and science. Special emphasis is given to the evaluation of methodology, and to instructional materials available

for bilingual students. Attention will also be given to the study of operational programs with, as practicable, visitation and observation. Required for bilingual certification.

1 0829 546 EDUCATION OF THE GIFTED AND TALENTED 3 sh

Course will focus on the components necessary for planning and implementing program for gifted and talented students: definition and identification procedures, alternative organizational patterns, curriculum design, instructional strategies and materials, teacher selection and program evaluation.

Prerequisite: Educational psychology.

1 0829 600 MAT SEMINAR: RELATING INSTRUCTIONAL THOUGHT AND PRACTICES 3 sh

Seminar course providing in-depth study of selected topics related to current classroom problems, based on sound educational theory and practice. The comprehensive examination for the M.A. (major in teaching) will be based on this course.

Prerequisite: Completion of 30 sh in MAT program.

1 0829 605 PRACTICUM IN TEACHING 5 sh

The student initiates and completes an independent study project within the fields of curriculum and instruction.

Prerequisite: Approval of Advisor.

1 0829 610 INDEPENDENT STUDY IN CURRICULUM AND TEACHING 1 sh

An opportunity for practicing teachers to develop and implement curricula under the guidance of curriculum development specialists. Student should discuss proposal with a faculty sponsor in the Department of Curriculum and Teaching and secure permission prior to registration. Especially appropriate for teachers involved in "T & E" planning.

Prerequisite: 1 0829 530.

1 0829 635 RESEARCH SEMINAR IN CURRICULUM CONSTRUCTION 3 sh

Individual advanced work in curriculum construction. Admission upon approval of the instructor.

Prerequisites: 1 0829 530 and 531 or 532 or 533.

EDUCATIONAL FOUNDATIONS

Chairperson: Dr. Thunder Haas

The Department of Educational Foundations has the dual responsibility of serving and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new, innovative programs. In keeping with these professional responsibilities, the department offers foundations courses for the preparation of professional public school educators, and at the same time satisfies specialized demands emanating from social, political, ethnic & cultural problems.

EDUCATIONAL FOUNDATIONS

Course Descriptions

3 0821 520 DEVELOPMENT OF EDUCATIONAL THOUGHT 3 sh

Intensive study of philosophic assumptions from classical to modern schools of thought as they relate to educational theory and practice. Realism, idealism, and naturalism with emphasis upon significant contributions from Plato, Aristotle, Epicurus, Locke, Rousseau, Aquinas and others will be analyzed in light of current issues.

3 0821 521 CONTEMPORARY EDUCATIONAL THOUGHT 3 sh

Critical evaluations of schools of philosophy which have contributed to educational thought in modern times; pragmatism, progressivism, existentialism, perennialism, reconstructionism, and others. Current trends and problems; principles underlying educational theory and practice.

3 0821 522 PRAGMATISM IN EDUCATION 3 sh

An intensive study of the doctrines and principles developed in the writings of John Dewey and his followers, with special reference to critical issues in education today. Introduction into pragmatic thought through the writings of Dewey, Pierce, and James, and the implications of this philosophy studied through the works of Kilpatrick, Counts, Bode, Childs, Bramald, and others.

- 3 0821 523 EXISTENTIALISM IN EDUCATION 3 sh**
 Existential motifs in Sartre, Kierkegaard, Nietzsche, Heidegger, Buber and Camus with emphasis on the implications for educational aims, curricula, methods and values. Works of Morris, Kneller, Greene and Happer, who have begun to define existentialism for education today.
- 3 0821 525 HUMAN VALUES AND EDUCATION 3 sh**
 Students examine the different theories of moral development with an emphasis on their philosophical as well as psychological and social dimensions. Conflicting value theories are studied with a view toward consideration of alternative approaches to moral education in our schools.
- 3 0821 530 FOUNDATIONS OF BILINGUAL/BICULTURAL EDUCATION 3 sh**
 Survey and introduction to bilingual schooling in the US with special reference to historical backgrounds; typology and definitions; programs, practices, and staff development; overview of court decisions and legislation affecting bilingual education.
- 3 0821 532 INTERPERSONAL RELATIONS BILINGUAL CHILDREN 3 sh**
 Survey and analysis of interpersonal relations of Puerto Rican children, including examination of cultural life style, psycho-social development, family socialization process and self-identity, and economic situation, to enable the teacher of Hispanic-American students to deal effectively, constructively, and empathetically with them.
- 3 0821 535 PLURALISM IN BILINGUAL EDUCATION AND AMERICAN SCHOOLS 3 sh**
 Approaches to cultural and ethnic pluralism are related to specific types of bilingualism in American education. Efforts of various ethnic groups to have children attend public schools and private schools during the same day. Bilingual/bicultural approaches related to specific immigrant groups, to their cultures and religions, and to the specific social roles they came to play in American society.
- 3 0821 540 SOCIAL FORCES AND EDUCATION 3 sh**
 Examination of various facets of society that have impact on the educational system; economic, political, social, ethnic and religious forces as they relate to problems of educational systems. Field studies included.
- 3 0821 541 SCHOOL AS A SOCIAL SYSTEM 3 sh**
 Analyzes the school as a social system, the relationships between the school and certain external environmental forces, and the relationship between various internal departments of the school.
- 3 0821 544 SOCIAL CLASS AND EDUCATION 3 sh**
 Social, ethnic and racial customs as they relate to class structure and educational values. Traditions of various social groups and their effect on American education.

3 0821 545 POLITICAL FORCES AND EDUCATION 3 sh

Influences of the political structure and the educational system on each other. Specific roles played by education and educational leaders in government bodies at various levels.

3 0821 548 CRUCIAL ISSUES IN AMERICAN EDUCATION 3 sh

A study of the origin, development, and status of very specific crucial issues in the field of education: equal opportunity for education and racial integration, federal aid to education, compensatory education and socio-economic deprivation, and affirmative action and civil rights legislation.

3 0821 560 COMPARATIVE STUDIES OF EDUCATIONAL SYSTEMS 3 sh

An examination of educational institutions and systems in various areas of the world with particular attention given to the relationship between social structure and types of educational institutions, the conflict between traditional and modern education, the nature of the profession on the secondary and college levels, and student movements for educational change.

3 0821 561 EDUCATION IN WESTERN EUROPE 3 sh

Variations in educational thinking and practices in selected European countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the relationship between school systems and their cultural contexts.

3 0821 564 EDUCATION IN LATIN AMERICA 3 sh

The basic Latin American social, economic and cultural structures and how they relate to secondary school and university systems.

3 0821 571 EDUCATIONAL FORCES IN CORRECTIONAL INSTITUTIONS 3 sh

Historical development of correctional education in the United States. A study of the various functions of the present state/county correctional institutions and programs in New Jersey with specific focus on the student populations served. Relevant elements of the criminal justice system, institutional classification procedures, and pre- and post-release services available to the offender. Visits to correctional institutions will be scheduled.

3 0821 580 FOUNDATIONS OF REFLECTIVE EDUCATION 9 sh

Skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials of philosophy for children as well as the history of philosophical ideas which form an essential component of the approach.

(This course will not count toward the undergraduate major in philosophy.)

EDUCATIONAL LEADERSHIP

Chairperson: Dr. Anne C. Castens

Graduate Advisors:

Educational Leadership:

Administration and

Supervision:

Reading:

Research and Evaluation:

Media and Technology in

Education:

Dr. Laurence Bellagamba

Dr. Anne Castens,

Dr. Frank Merlo,

Dr. David Weischadle

Dr. Joseph Brunner,

Dr. Maria Schantz

Dr. Gerhard Lang

Dr. Grosvenor Rust

Educational Leadership, working with other departments of the College and the School, prepares educational leaders in the broadest sense. Programs of graduate study leading to the Master of Arts in Administration and/or Supervision, Reading, and to post-M.A. studies, are offered. In addition, the department offers courses at the graduate level in Administration and Supervision, Educational Research and Evaluation, Media and Technology in Education, and Reading.

The majority of the graduate programs are directed toward certification as Supervisor, Principal, School Administrator, Business Administrator, Reading Teacher, Reading Specialist or Media Specialist. A comprehensive study of the field of Educational Leadership is encouraged, however.

Certification programs are also available to those holding a teaching certificate and M.A. degrees in a subject area and desiring certification as supervisors or administrators.

A new concentration (non-state certificate bearing) in the Master of Arts degrees in Administration and Supervision, the Educator/Trainer concentration, has been designed for training personnel in business and industry.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION

(For school personnel)

Three years of successful teaching experience under certification are required for certification as Supervisor or Administrator.

Our programs provide solid scholastic foundations in the multifaceted purposes of education in a democratic society. They combine study with close observation and practice in various communities and agencies. The graduate programs in the department prepare students for positions as:

1. Major administrative or supervisory personnel at all levels of educational systems.
2. Educational managers and planners in the media fields. (e.g. media specialist)
3. Reading specialists or consultants.
4. Educational researchers, evaluators and testing specialists.

Our effort is to select candidates carefully and lead them to be able to:

1. Develop a personal philosophy of education and social ethic consistent with related theories of learning and human development.
2. Develop characteristics required for effective leadership in education.
3. Analyze educational organizations, and plan programs and strategies for increasing organizational effectiveness.
4. Develop techniques to facilitate interpersonal and group problem-solving and decision making.
5. Develop skills in managing change and conflict in educational endeavors.
6. Interpret research findings and design and implement research techniques to their organizational needs.

ADMISSION REQUIREMENTS

In addition to the admission requirements for graduate study at Montclair State College, students wishing to matriculate into the Master of Arts program in Administration and Supervision in the Department of Educational Leadership must first complete requirements listed in Phase I of the program or be enrolled in the last course in Phase I.

Admission to Phase I (pre-matriculation) requires:

1. A valid teaching certificate issued by a State Department of Education.
2. One and one-half years of successful teaching experience under contract or other employment judged as suitable educational experience by the department.

Students who wish to move from Phase I (pre-matriculation phase) to full matriculation in the program must apply to the Department of Educational Leadership.

The process leading to full matriculation includes:

1. A departmental interview.
2. A matriculation examination scheduled at the time of the matriculation interview.
3. An updated statement of personal goals written at the time of the matriculation interview.

Other requirements for full matriculation include:

1. Successful completion of Phase I requirements (or completing last course).
2. Two years of successful teaching experience under contract.
3. Recommendations from three educational leaders familiar with the professional work of the candidate. One recommendation must be from an instructor in Phase I.
4. Competency in written and spoken English as determined by the matriculation interview and the updated statement of goals.
5. Personal characteristics of leadership.

A student must apply for pre-matriculation before completing six semester hours of course work in Phase I of the Administration and Supervision program in order to determine the student's eligibility for the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

PROGRAM REQUIREMENTS

I.	Phase I Requirements	12 sh
	0824 503 Methods of Research	3 sh
	A graduate course offered in learning theory and application	3 sh
	0827 510 Educational Administration I	3 sh
	0842 564 Dynamics of Group Process or the successful completion of a course in group dynamics at the graduate level of any accredited college, or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institution	3 sh
II.	Phase II Requirements	9 sh
	0829 530 Principles of Curriculum Development	3 sh
	0827 540 Supervision I (Principles)	3 sh
	0827 520 Systems Analysis	3 sh
III.	Phase III Requirements	12-21 sh
	0827 615 Field Experience in Administration and Supervision	3 sh

Electives to be selected after consultation with the advisor, and listed in the Master of Arts work program. They may be selected to satisfy certification requirements. Certain courses outside the School may be selected. A concentration in Media or Educational Research and Evaluation is possible with Supervisor's Program.

IV. Comprehensive Examination

Minimum: 33-36 semester hours

ADVANCED GRADUATE STUDY IN ADMINISTRATION AND SUPERVISION

Students holding a Master of Arts degree and New Jersey certificate for Principal, who wish to continue planned graduate study of thirty additional semester hours, will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision, and make a satisfactory grade on a comprehensive examination covering the field. Such a program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for the School Administrator's Certificate (Superintendent of Schools) in New Jersey.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION—CONCENTRATION FOR EDUCATOR/TRAINER

(Training Personnel)
(nonstate certificate bearing)

This program provides solid scholastic foundations with close observation of the applications and implementation of theoretical principles. Graduates will serve as supervisors of trainers in corporate management, basic skill training in industry, civil service training, library/museums, health services, banks, research project management, and human resource management. Graduates of this program will learn to:

1. Develop a personal philosophy of organizational training consistent with the related theories of adult learning and human development.
2. Develop effective leadership skills in educational training programs.
3. Analyze organizations and plan programs and strategies for increased effectiveness.
4. Develop techniques for interpersonal and group problem solving and decision-making.
5. Develop skills in managing change and conflict.
6. Interpret research findings and design and implement research techniques to their organizational needs.

A student must apply for pre-matriculation before completing six semester hours in the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on the requirements of the Office of Graduate Studies and of the department and any

special individual requirements assigned to the student by the Educational Leadership faculty.

ADMISSION REQUIREMENTS

1. A bachelor's degree from an accredited institution of higher education.
2. Satisfactory performance on G.R.E. Exam.
3. Competency in oral and written English.
4. A minimum of one and one-half years of work experience (business or teaching).
5. Personal leadership characteristics as evidenced in a departmental interview.
6. Satisfactory completion of Phase I course work.
7. Recommendation from three individuals familiar with candidate's capabilities (one from instructor in Phase I).

Students are considered "pre-matriculated" until completing the first twelve credits in the program. To move from Phase I (the pre-matriculation phase) to full matriculation in the program, they must apply to the Department of Educational Leadership after or while completing the twelve credits.

The process leading to full matriculation includes:

1. A departmental interview.
2. An updated statement of personal goals written at the time of the matriculation interview.
3. Validation of 1½ years work experience.

PROGRAM REQUIREMENTS

I.	Phase I Requirements	12 sh
	0824 503 Methods of Research	3 sh
	0826 564 Dynamics of Group Process	3 sh
	0827 509 Administration of Education and Training Programs	3 sh
	2001 549 Psychology of the Adult Learner	3 sh
II.	Phase II Requirements	15 sh
	0827 531 Program Planning and Development	3 sh
	0827 542 Supervisory Skills for Education and Training Personnel	3 sh
	9 elective credits (approved by adviser) in area of specialization	9 sh
III.	Phase III Requirements	9 sh
	0827 628 Field Experience or Internship	3 or 6 sh
	2 electives in major field approved by adviser	6 sh
		36 sh

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN READING

ADMISSION REQUIREMENTS

Provision is made in this program to matriculate students who have demonstrated interest and ability suitable to reading education. Applicants shall furnish acceptable evidence of talent appropriate for competence in reading instruction. Letters of recommendation from the school system superintendent or the school building principal will be acceptable. Final matriculation is the departmental decision; prerequisites will be determined by departmental advisement.

PROGRAM REQUIREMENTS

- I. Basic Professional Education 6 sh
 - 0824 503 Methods of Research (required) 3 sh
 - Elective in School of Professional Studies 3 sh
- II. Required Courses in Reading 12 sh
 - 0830 500 The Nature of Reading 3 sh
 - 0830 511 Case Studies of Reading Difficulties 3 sh
 - 0830 513 Corrective and Remedial Reading I 3 sh
(written permission required)
 - 0830 505 Research Seminar in Reading 3 sh
(written permission required)
- III. Elective Courses in Reading 6 sh

Students must take additional reading electives in order to meet specialization requirements.

 - 0830 501 Techniques of Reading Improvement in
Secondary Schools 3 sh
 - 0830 502 Administration and Supervision of Reading
Programs 3 sh
 - 0830 503 Literature for Adolescents 3 sh
 - 0830 504 Reading Needs of Adult Learners 3 sh
 - 0830 506 Reading Resources 3 sh
 - 0830 509 Teaching of Communication Skills 3 sh
(Open to M.A.T. and certification students only)
 - 0830 510 Field Experience in Reading 3 sh
 - 0830 512 Seminar in Reading Difficulties 3 sh
 - 0830 514 Corrective and Remedial Reading II 3 sh
(written permission required)
- IV. Free Electives 6 sh

Any graduate courses offered by the College.
- V. Additional Department Requirements
 - A. Supervised clinical experience within the framework of required courses and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Reading Center.

- B. A written comprehensive examination, supplemented if necessary by an oral examination, or an equivalent comprehensive experience determined by the Department.
- C. A reading portfolio containing representative work and personal contributions in reading will be compiled by the student. This portfolio will be used to diagnose students' strengths and weaknesses as they progress through the program.

Minimum: 33 semester hours

In March 1976, the New Jersey Board of Education passed a proposal for a six-semester hour or two-course requirement in the teaching of reading as it pertains to the field for which certification is being sought. This requirement became effective in September 1977. Courses are available through the Reading Program.

Students seeking Teacher Certification, therefore, must complete the following Reading Courses prior to filing for certification:

0830 407	Developmental Reading: Principles and Techniques Part I	3 sh
0830 408	Developmental Reading: Principles and Techniques Part II	3 sh

PROGRAM LEADING TO THE READING SPECIALIST CERTIFICATE

Minimum Requirements: Initial teaching certificate, two years of teaching experience and a program of 30 hours of study. See advisors for further information.

MEDIA AND TECHNOLOGY IN EDUCATION

The Instructional Media Courses offered below are available as a sequence of study to meet the educational media specialist certification requirements. Persons wishing to prepare for one of the two certificates should arrange for a conference with the proper advisor.

A Master's Degree and either a standard New Jersey Teacher's Certificate or an Associate Educational Media Certificate are required as prerequisites to the issuing of the Educational Media Specialist Certificate. A Bachelor's Degree and a standard New Jersey Teacher's Certificate are required as prerequisites to the issuing of the Associate Educational Media Specialist Certificate. Course descriptions for the related undergraduate program leading to this last certificate are provided in the undergraduate catalog.

The following Senior Graduate level courses are open to graduate students pursuing certification under the 1974 media certification act. Approval of Graduate Advisor is required for inclusion in a program of study.

4 0840 401	Fundamentals of Cataloging and Classification	3 sh
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4 0840 402	Reference and Bibliography for School Resource Centers	3 sh
4 0840 403	Reading Materials for Children and Youth: Selection and Evaluation	4 sh
4 0840 420	Teaching Materials Workshop	3 sh
4 0840 430	Television Services in a Single School Media Program	3 sh
4 0840 445	Audio Technology in Education	3 sh



EDUCATIONAL LEADERSHIP

Course Descriptions

ADMINISTRATION AND SUPERVISION

4 0824 503 METHODS OF RESEARCH 3 sh

Theory and methods of historical, descriptive, and experimental research; formulation of a research problem; use of bibliographical sources and reference materials; statistics and measurement in research; types and instruments of research; data collection, and analysis. Writing the research report, and career opportunities in research.

Prerequisite: 15 501, or 15 507, or equivalent. Departments may waive the prerequisite.

4 0824 504 ACTION RESEARCH FOR TEACHERS 3 sh

Principles and techniques of research applicable to classroom situations. Various kinds of classroom research are studied and analyzed. Practice provided in the planning and outlining of a research project. The development of experimental designs, and evaluation of the structure and outcomes of classroom research. (Open to M.A.T. (major in teaching) and certification students only.)

4 0824 505 INTERPRETATION AND APPLICATION OF EDUCATIONAL RESEARCH 3 sh

Provides an understanding of research studies dealing with current issues in education. Representative research and evaluation studies will be critically analyzed.

Prerequisites: A course in statistics or testing and 0824 503 or equivalent. (Minimum knowledge of statistics and basic research methodology is desirable).

4 0824 507 MEASUREMENT AND EVALUATION: COGNITIVE DOMAIN 3 sh

Theory and practice course to develop comprehension of and skill in constructing tests in the cognitive domain, i.e. intelligence, aptitude, achievement, and problem-solving tests. Laboratory exercises are included. Basic measurement concepts relating to test construction. Students will carry out project according to needs.

Prerequisite: A basic course in descriptive statistics.

4 0824 508 MEASUREMENT AND EVALUATION: AFFECTIVE DOMAIN 3 sh

Theory and practice to develop comprehension of and skill in constructing tests in the affective domain, such as opinionnaires, interest tests, self concept tests, personality inventories, and attitude scales. Basic measurement concepts relating to test construction. Students will carry out project according to needs.

Prerequisites: A basic course in descriptive statistics and 0824 507; 4 0824 507 crs. in similar field.

4 0824 578 TESTING AND EVALUATION 3 sh

Principles and practices of educational and psychological testing and evaluation relevant to professionals in human services, communication sciences and disorders, education, and related fields. Historical/philosophical orientation; place of testing in instructional and remedial programs; statistical concepts underlying measurement; validity, reliability, response set; construction of tests and measurement instruments; evaluation and interpretation of testing data; use and misuse of testing data; reporting data to students, parents and colleagues; critical analyses of selected standardized intelligence, ability and personality tests; experimental tests and measurement instruments. Course project geared to individual student needs.

4 0824 579 ASSESSMENT FOR EDUCATOR/TRAINERS IN NON-SCHOOL EDUCATIONAL SETTINGS 3 sh

Principles and practices of assessing behavior, skills, knowledge and attitudes of trainees in non-school educational and training programs. Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Course content and requirements will be geared to individual needs of students.

4 0824 580 PUPIL LEARNING PROCESS & MEASUREMENT 3 sh

Study of the learning process and its measurement as it applies to the classroom, the school, and the school district. This course is primarily designed to provide instructional and administrative school personnel with the knowledge and competency required to design, implement and appraise the instructional aspects of the New Jersey Administrative Code (Title 6 Education) and the New Jersey Statutes (Title 18A—Education) (Thorough and Efficient Education).

4 0824 585 DEVELOPMENT OF STUDENT TEST-TAKING SKILLS 3 sh

This course is designed to help teachers understand the underlying motivational, situational, and cognitive aspects of test taking skill in order to help students to maximize their test performance. Basic measurement concepts will be reviewed, and test item construction abilities developed.

4 0824 603 SEMINAR IN RESEARCH 3 sh

Carrying out a research project—historical, descriptive, or experimental in nature—culminating in a written report.

Prerequisites: 0824 503, 4 0824 503 crs. in similar field.

4 0824 630 EVALUATION OF EDUCATIONAL PROGRAMS AND PERSONNEL 3 sh

Problems, issues, and procedures involved in designing and carrying on evaluation studies dealing with institutions, programs, curricula, and personnel performance. Students will undertake an evaluation project and write a project report. Course content and requirements will be geared to individual needs of students. Permission of Advisor is required.

4 0824 650 INDEPENDENT STUDY IN EDUCATIONAL RESEARCH AND EVALUATION 3 sh

Designed for individuals who, in consultation with advisor, wish to undertake an in-depth analysis of a specific research problem.

Prerequisite: Permission of Advisor.

4 0827 509 ADMINISTRATION OF EDUCATION AND TRAINING PROGRAMS 3 sh

This course prepares the present or prospective administrator to manage an education or training program in a non-school setting. Administrative theory, organizational functions, personnel and staff requirements as well as program design and development will be examined and studied. The course is designed for the educational administrator in both public and non-public agencies as well as in profit-making or nonprofit organizations.

4 0827 510 EDUCATIONAL ADMINISTRATION I 3 sh

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories considered in the educational setting. Impact of environmental and personal forces on organizational behavior.

Prerequisite: 1½ years of successful teaching under certification.

4 0827 511 EDUCATIONAL ADMINISTRATION II 3 sh

Processes and findings of organization science applied to educational problems. Frameworks for instruction, personnel, finance, facilities, service and public participation at the school district level. Emphasizes issues, trends and contemporary problems.

Prerequisites: 4 0827 510, 4 0827 510.

4 0827 512 ADMINISTRATION OF ELEMENTARY SCHOOLS 3 sh

Educational leadership required for effective elementary school organization and administration. Changing role of the principal, relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

Prerequisite: 4 0827 510.

4 0827 513 SECONDARY SCHOOL ADMINISTRATION 3 sh

Special administration problems of the junior and senior high school. Recruitment of staff; scheduling of teachers organization and school morale, and recent experiments of organizational structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to help design education as a continuous process. Students write a paper on a special administrative problem.

Prerequisite: 4 0827 510.

4 0827 514 VOCATIONAL SCHOOL ADMINISTRATION 3 sh

Characteristics, needs, problems and organizational patterns of vocational schools. Experience, procedures, practices for appraising programs and individual achievement. Identification and assessment of current issues and trends in technical and vocational education as an integral part of the total school program.

Prerequisite: 4 0827 510.

4 0827 520 SYSTEMS ANALYSIS IN EDUCATION 3 sh

Latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curricular or administrative mode. Simulation techniques in classroom-oriented activities.

Prerequisites: 4 0827 510, 4 0829 530, D 087 510, B 0827 530.

4 0827 521 EDUCATION LAW 3 sh

Legal-theory, practical politics, relationship of school district organization to other units of government, appellate function of the State Commissioner of Education and the State Board of Education, New Jersey school laws (Title 18A of the revised statutes) and rules and regulations of the State Board of Education and their decisions. New Jersey school legal structure compared with that of other states.

Prerequisite: 4 0827 510.

4 0827 522 USE OF COMPUTERS IN EDUCATIONAL ADMINISTRATION 3 sh

This introductory course provides for the school administrator an overview of the computer, its development and applications in education, and the nature of the computer operational requirements in an educational organization. Also included will be the elements of an educational management information system (EMIS), computer staff supervision, and use of computers in such areas as testing, record keeping, attendance and report preparation.

Prerequisite: 4 0827 510

4 0827 523 SCHOOL PLANT PLANNING 3 sh

The relationship between educational facilities and educational programs. Site selection, development of educational specifications, the physical environment, selection of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities.

Prerequisite: 4 0827 510.

4 0827 524 EDUCATION LAW II 3 sh

This course is principally designed for the experienced public school teacher, administrator and Board of Education member. Such topics as school district and employee liability, negligence, and the constitutional and statutory rights of the school employee and student are fully explored. Pertinent administrative law and court decisions are reviewed using the case study method.

Prerequisite: D 0827 521, majors only.

4 0827 526 SCHOOL BUSINESS ADMINISTRATION 3 sh

Role of school business administration in the public school. Various functions, structures and techniques of operation. Simulation techniques utilized to construct both a traditional and PPBS budget.

Prerequisite: 4 0827-510

4 0827 527 SCHOOL DISTRICT PLANNING AND POLICY MAKING 3 sh

This course will focus on the rules and regulations of the local school districts, how they are developed, what forces are involved in their development, and what roles the educational administrator plays in this total process. The course will explore the planning and decision-making process which leads to the establishment of local school board policy as determined through local, state, and federal policy.

Prerequisites: 4 0827 510, 1 0829 530, Permission of instructor.

4 0827 531 PROGRAM PLANNING AND DEVELOPMENT 3 sh

This course provides education and training personnel with experience in the principles and techniques of designing training programs in the organizational setting. Special attention will be placed on organizational needs analysis and program development in skills areas and staff development. Students will design a total program and individual lessons for education and training efforts in a variety of simulated settings.

4 0827 540 SUPERVISION I 3 sh

School personnel as principals, coordinators and department and subject area supervisors in elementary and secondary schools. Contribution and supervisors in instruction and in supporting the professional work of classroom teachers.

Prerequisites: Two years of teaching experience; 4 0827 510.

4 0827 541 SUPERVISION II 3 sh

Applies theories of supervision to practical situations in particular grade levels and/or in special subject fields. Sharp focus on improving the teaching skills of colleagues. Critical analysis and improvement of local teacher evaluation procedures. Consideration of the impact of contemporary educational issues on school improvement. Course modified in terms of student's needs.

Prerequisite: 4 0827 540 and 4 0827 510.

4 0827 542 SUPERVISORY SKILLS FOR EDUCATION AND TRAINING PERSONNEL 3 sh

This course provides the present and prospective education and training supervisor in a public or non-public, profit or non-profit setting with instruction in course/program assessment, personnel selection procedures, staff evaluation processes, and material/equipment procurement. Also included is training manual development and use.

Prerequisite: 4 0827 509.

4 0827 543 THE CLINICAL SUPERVISOR 3 sh

Role of the supervisor in implementing clinical supervisory practices. Simulation techniques utilized to develop observation and conference techniques as well as the development of professional improvement plans. Prerequisites: 4 0827 540, majors only; 4 0827 510.

4 0827 560 WORKSHOP SEMINAR IN HIGHER EDUCATION 3 sh

Overview of structure and functioning. History, philosophy, sociology and politics of the college as a unique and dynamic institution in American society; educational opportunity and the organization of higher education; open admissions; status, trends and implications; minority group youth in higher education; student initiatives for reform; faculty governance. Prerequisite: Permission of instructor.

4 0827 565 TWO YEAR JUNIOR COLLEGE 3 sh

History, purpose, patterns and trends of the two-year college, including the junior college, the community college and university extension centers.

4 0827 610 THEORY AND RESEARCH IN ADMINISTRATION 3 sh

Applies organization science to and gives scholarly analysis of individual problems in experiences in the internship or field. Prerequisite: Permission of instructor.

4 0827 611 ADVANCED SEMINAR ON EDUCATIONAL ISSUES 3 sh

Final integrating experience in the leadership program. Implications for educational administration of major contemporary issues and trends. Prerequisite: Permission of Graduate Advisor.

4 0827 615 SUPERVISED FIELD EXPERIENCE IN ADMINISTRATION & SUPERVISION 3 sh

Students are assigned work within an educational agency, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the students, the administrator and the college supervisor, who will evaluate the total experience. This experience is not to be construed as an internship, as it will not encompass the total job description of the administrator.

Prerequisite: Permission of a Graduate Advisor. Graduate program matriculation required.

4 0827 616 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 6 sh

Full semester assignment of guided work within an educational institution's administrative office. Sixth-year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where the student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for positions, scheduling, inservice pro-

professional development, special committee leadership, projects that influence curriculum building arrangements and budgets. The sixth year student may be required to take 0827 610 or 0827 611 for three additional semester hours during this internship. In all cases, s/he will complete the research project as a part of the internship assignment. (Open only to post-master study.)

Prerequisite: Permission of Graduate Advisor.

4 0827 618 INDEPENDENT STUDY IN EDUCATIONAL ADMINISTRATION AND SUPERVISION 0 sh

Individual pursuit of a research topic in the area culminating in a written document of scholarly proportion and integrity. Arrangements for this course should be made with Department Chairperson or Advisor.

Prerequisites: Open only to advanced matriculated students in programs, with permission of Department Chairperson.

4 0827 619 SEMINAR IN ADMINISTRATION SUPERVISION AND CURRICULUM 3 sh

Intensive study of administrative and supervisory problems suggested by educational events and trends of the year. Each student does an individual piece of research which is reported to the class. This represents advanced work which depends upon previous study or experience in educational administration or supervision.

Prerequisite: Permission of Graduate Advisor.

4 0827 622 SCHOOL FINANCE 3 sh

Current economic environment; state, local and federal taxation; state school aid theory and practice; school district indebtedness; statutory school budget and fiscal controls; various cost-quality instruments and role of school fiscal structure in relation to local, state and federal governments.

Prerequisites: 4 0827 510, 4 0827 521, 4 0827 510 or 4 0827 521.

4 0827 623 ADVANCED SCHOOL PLANT PLANNING 3 sh

Advanced course in school plant enables student to plan an innovative educational facility. Independent (contract) study approach, coupled with scheduled critiques with professor, is main method of instruction.

Prerequisites: A course in school plant planning and 4 0827 510, 4 0827 523, 4 0827 523, 4 0827 510.

4 0827 625 SCHOOL PLANT MAINTENANCE AND OPERATION 3 sh

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

Prerequisite: 4 0827 510.

4 0827 628 FIELD EXPERIENCE ADMINISTRATION & SUPERVISION 3 sh

Students are assigned to a particular office, under guidance of a supervisor, to carry out certain functions of the position. A College staff member acts as coordinator and supervisor by visiting site and consulting with student, observing him/her in action; plans with site supervisor for improvement and evaluation of student's work.

4 0827 629 ACCOUNTING, AUDITING, AND REPORTING FOR SCHOOL SYSTEMS 3 sh

The course will provide students with the knowledge and skills required to initiate and maintain a school district's accounting, auditing, and reporting program. Emphasis is placed on the terminology and processes required to insure local school district financial accountability. New Jersey operational requirements will be stressed.

Prerequisites: 4 0827 521, 4 0827 526.

4 0827 635 RESEARCH SEMINAR CURRICULUM DEVELOPMENT 3 sh

For students engaged in problems of curriculum reconstruction and those who anticipate committee work in this field. Levels. Each student does an individual piece of research which is reported to the class. This represents advanced work which depends on previous study in curriculum area.

4 0827 643 STAFF PERSONNEL ADMINISTRATION 3 sh

Personnel practices and problems in current school situations. Roles of policy-making bodies, the public, professionals, para-professionals and general staff in recruitment, selection, retention and evaluation of staff.

Prerequisites: 4 0827 510, 4 0827 540.

4 0827 644 COLLECTIVE BARGAINING, IMPASSE AND GRIEVANCE RESOLUTION 3 sh

Analysis of New Jersey Public Relations Law (Chapter 123, New Jersey Public Laws of 1974). Simulations and case procedures.

Prerequisites: 4 0827 510, 4 0827 540; 4 0827 510, majors only; 4 0827 540, Instructor's Permission.

4 0827 670 SELECTED TOPICS IN EDUCATIONAL ADMINISTRATION/SUPERVISION 1-3 sh

Emphasis on in-service education for practicing administrators and/or supervisors. Topics will vary in accordance with needs, concerns, or requests of school districts or professional organizations desiring service. Current problems are given priority. Credits to be dependent upon number of hours workshops and/or seminars are in session.

Prerequisite: Participants are to be practicing administrators and/or supervisors.

READING

Course Descriptions

4 0830 500 THE NATURE OF READING 3 sh

The foundations of reading: the nature of the reading process, readiness, beginning instruction, current practices in the teaching of reading in early childhood and elementary education, a reappraisal of the role of reading in a technological society.

4 0830 501 TECHNIQUES OF READING IMPROVEMENT IN THE SECONDARY SCHOOL 3 sh

The improvement of non-clinical reading difficulties in the content subjects. For the subject area teacher and the beginning reading specialist. Secondary school reading needs and specific suggestions for guiding the slow, average, and gifted student in a classroom situation.

4 0830 502 ADMINISTRATION & SUPERVISION OF READING PROGRAMS 3 sh

The more complex aspects of organizing and administering reading programs: theory and techniques of leadership, program development, organization of in-service programs, developing a budget, methods of evaluation. Essential background for reading specialists to establish or administer a functional school reading program.

4 0830 503 LITERATURE FOR ADOLESCENTS 3 sh

Background for the development of recreational reading programs in junior and senior high schools. Literature written for students, as well as literature intended to be read widely by adolescents, criteria for book selection, censorship, role of mass media, minority group identification through books, bibliotherapy, bibliographic tools, and the importance of the librarian.

4 0830 504 THE READING NEEDS OF ADULT LEARNERS 3 sh

For teachers of out-of-school youth and adults. Language learning and related psychological factors, methodology and reading instruction, literature and the reading program and innovations in reading instruction.

4 0830 505 RESEARCH SEMINAR IN READING 3 sh

Problems in the field of reading suggested by the educational events and trends, the members of the class, and by educational movements in New Jersey, the country, and the world. Each student will execute an individual research effort.

Prerequisite: Written Permission of Advisor.

4 0830 506 READING RESOURCES 3 sh

Software, hardware, multi-media and multi-sensory materials available in schools and in adjunct facilities; philosophic, psychological and academic considerations of reading resources. Video tape demonstrations of materials.

4 0830 507 UNDERSTANDING READING COMPREHENSION

3 sh

This course provides for educators and others an understanding of the processes underlying the processing of visible language, particularly the types commonly found in educational settings. The instructor will explore with the participants the affective, cognitive, linguistic, pragmatic, and textual variables pertaining to the formulation of meaning in reading. The eventual outcome of the course will be the creation of a conceptual framework for the comprehensibility of written materials couched in terms of the interaction among the reader, the text, and other pragmatic variables.

Prerequisites: D 0808 500, D 0808 501.

4 0830 509 THE TEACHING OF COMMUNICATION SKILLS 3 sh

The role of communication skills, of major importance in the learning process. Abilities, limitations, and needs of students in speaking, listening, reading, and writing. Adaptations in curricula, assignments, and procedures to the levels of students in a classroom; remedial measures. Speech, reading and English instructors involved in course.

Prerequisite: Open to M.A.T. and certification students only.

4 0830 510 FIELD EXPERIENCE IN READING

3 sh

Agencies and programs dealing with reading. Students observe, participate, and report activities of the agencies. For students in long-range research with limited teaching experience, who need additional field and clinical experience. Independent study.

Prerequisite: Permission of Reading Advisor.

4 0830 511 CASE STUDIES OF READING DIFFICULTIES

3 sh

This is a basic course in learning the techniques for diagnosing reading difficulties; for diagnosing the most frequently used tests and inventories; the actual testing of a child with reading problems. Group and individual tests, survey and diagnostic tests, and standardized and informal tests; reporting to parents, schools and agencies. The course is geared to develop skills in diagnosing reading problems for individuals which will be used by the clinician for treating remedial and corrective students.

Prerequisite: 4 0830 500 and Permission of Instructor. Additional diagnostic hours will be arranged.

4 0830 512 SEMINAR IN READING DISABILITIES

3 sh

Significant problems in the field of reading disability; historical and emerging models used in reading diagnosis.

4 0830 513 CORRECTIVE AND REMEDIAL READING: PART I CAUSATION

3 sh

For advanced students and specialists involved in some aspect of remedial instruction. Part I: investigation and interpretation of serious reading problems, causes of reading difficulties, techniques of remedial and corrective treatment. Part II: selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum

situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written Permission of the Instructor required.

4 0830 514 CORRECTIVE AND REMEDIAL READING: 3 sh
PART II TREATMENT

For advanced students and specialists involved in some aspect of remedial instruction. Part I: investigation and interpretation of serious reading problems, causes of reading difficulties, techniques of remedial and corrective treatment. Part II: selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written Permission of the Instructor required.

MEDIA AND TECHNOLOGY IN EDUCATION

4 0840 500 MEDIA, TECHNOLOGY, AND LEARNING IN 3 sh
THE CURRICULUM

The organizing and integrating of media in school curricula and other educational programs. Identifying instructional purposes and defining roles for technology and media in learning and teaching. Examining and comparing curriculum designs for their concordance with the procedures of technology in education. Selection and evaluation of materials.

4 0840 520 PRODUCTION OF MATERIALS FOR MEDIA 3 sh
TECHNOLOGY

For developing advanced proficiency in preparing audio, photographic, and graphic materials. Especially for persons charged with materials preparation in media centers. Laboratory instruction.

4 0840 521 DESIGN OF INNOVATIVE CURRICULUM 3 sh
RESOURCES

Emphasis systems design, software, program development, creative development of media for special learning situations, basic design of programmed instruction and multi-media techniques.

Prerequisite: 4 0840 520.

4 0840 525 PHOTOGRAPHIC COMMUNICATION IN 3 sh
EDUCATION

Offered for the development of competency with the photographic processes and equipment commonly used in producing educational media. Extensive laboratory and camera work required. Emphasis is on proficient creativity for instructional utilizations.

Prerequisites: Approval of Instructor as to background in photography and ownership of adequate equipment.

4 0840 540 TELEVISION PRODUCTION IN EDUCATION 3 sh

Combination lecture, laboratory and seminar experiences in television, elements of television set design, functions of floor director, control room operations and basic television directing.

4 0840 541 TELEVISION PROGRAMMING IN EDUCATION: 3 sh
INDEPENDENT STUDY

Combination lecture, laboratory and seminar in programming, conceptual creativity, pre-planning, execution of ideas and evaluation of presentations. Selection and design of hardware.

Prerequisites: 4 0840 540 or course in similar field.

4 0840 550 ADMINISTRATION AND SUPERVISION OF 3 sh
MEDIA IN EDUCATION

Provides training for management of integrated instructional resource programs. Emphasis is on the practical, day-to-day problems of control, production, acquisition, utilization, finance, staffing, organization and evaluation for the provision of media and technology in educational enterprises. Additional attention is given to community relationships and special services.

4 0840 610 RESEARCH & DEVELOPMENT SEMINAR IN 3 sh
INSTRUCTIONAL TECHNOLOGY AND RESOURCES

A seminar on application of research findings to the design and utilization of instructional media and resources. Emphasis is on the extraction of practical utilization based upon research findings.

4 0840 615 SUPERVISED FIELD EXPERIENCE FOR 3 sh
EDUCATIONAL MEDIA CERTIFICATION

Students are assigned work within an educational media center, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the College supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the media specialist. A written report on the activity will be approved by the administrator and presented to the College supervisor, who will evaluate the total experience.

ENGLISH AND COMPARATIVE LITERATURE

Chairperson: Dr. Thomas Benediktsson

Graduate Advisor: Dr. Lee Khanna

In the Master's program in literature, the student will study individual authors and their works intensively, while developing a broader understanding of literary periods, themes, and types. Students are expected to demonstrate the ability to participate in sophisticated scholarly discourse, both orally and in writing. Within the total 33 semester hours of course work, one of four concentrations may be chosen: British Literature to 1745; British Literature 1745 to the Present; American Literature; and Comparative Literature. In addition, courses are offered in such special topics as the film, and the teaching of composition, literature and basic writing.

The program serves as continuing training for in-service teachers and as preparation for doctoral-level work, as well as intellectual enrichment for students who wish to develop a deeper understanding of literature for its own sake. A significant number of M.A. graduates have, in recent years, gone on to doctoral programs at major universities. Others have found the program to be both useful and enhancing to careers in business and government.

ADMISSION REQUIREMENTS

Candidates for matriculation in the Master of Arts program of this department must show a B average or better in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examinations. Most applicants will have majored in literature (English, comparative, or foreign) at the undergraduate level. However, students with strong academic credentials may apply even if they do not have the recommended background in literature. The graduate advisor will interview each candidate for the program regarding his or her scholastic record and intellectual or professional goals.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENGLISH AND COMPARATIVE LITERATURE

- I. Distribution of Course Work
 - A. British and American Literature

1. Seminar in Literary Research (to be taken near the beginning of the program) 3 sh
2. Thesis Writing (to be taken at the end of the program) 3 sh
3. A concentration in one of three major areas as follows: 9 sh
 - a. British Literature to 1745
 - b. British Literature from 1745 to the Present
 - c. American Literature
4. To be distributed among the remaining two major areas and the area of Comparative Literature 9 sh
5. Electives 9 sh

Minimum: 33 semester hours

- B. Comparative Literature. In cooperation with other divisions in the School of Humanities and Social Sciences, the Department offers students who have superior command of a foreign language (usually French or Spanish) the opportunity to concentrate in Comparative Literature.

Courses are focused on the interrelationships among literatures. Significant authors, ideas, movements, and literary types in different ages and cultures are selected for comparison. (N.B.: Comparative Literature courses, prefixed 1503, are open to all students, regardless of their concentration. Lectures and readings are in English.)

1. Seminar in Literary Research (to be taken near the beginning of the program) 3 sh
2. Thesis Writing (to be taken at the end of the program) 3 sh
3. A concentration in Comparative Literature 9 sh
4. French or Spanish Literature 9 sh
5. To be distributed among the three major areas of British and American Literature 9 sh

Minimum: 33 semester hours

II. Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language, either by passing a written examination or by earning a grade of B in the French Reading Course (1102-0100), before taking the comprehensive examination or registering for Thesis Writing. Examinations will normally be given in French, German, Russian, Italian, or Spanish. Other languages may be offered with the approval of the department. Students concentrating in Comparative Literature will receive approval of the language of their primary area of study.

The foreign language examination is given on the last Saturdays of February and September. The French Reading Course is offered whenever there is a sufficient number of interested students, usually

every other year. Students who wish to take the course should notify the Graduate Advisor.

III. Comprehensive Examination

All candidates for the Master's degree must pass a comprehensive examination. Students concentrating in British or American literature take a three-hour written test; those concentrating in Comparative Literature take a two-hour oral test. Both are designed to test critical ability and familiarity with major works of British, American, and foreign literature. Students must complete one-half of their course work and satisfy the foreign language requirement before taking the comprehensive examination, and must pass the examination before registering for Thesis Writing.

The comprehensive examination is based on a reading list compiled by the student and approved by a committee of the graduate faculty. The student selects at least fifteen major works from those studied in his or her graduate program (in the case of short pieces, a representative group by one author will be considered as one "work"). The list must include at least three of the four major areas of literary study (see Distribution of Course Work, above). In the semester before taking the examination, students should consult with the graduate advisor about the preparation of the reading list. The list must be submitted by the second week of the semester in which the examination will be taken, although earlier submission will increase the student's preparation time, and is strongly encouraged.

The comprehensive examination is given on the last Saturdays of March and October.

ENGLISH AND COMPARATIVE LITERATURE

Course Descriptions

BRITISH LITERATURE TO 1745

M 1501 500 OLD ENGLISH LITERATURE

3 sh

Specimens of Old English prose and poetry are read in the original language and studied for an appreciation of their literary art. No previous study of Old English is required. The first half of the course is spent on grammar and pronunciation, using prose from the chronicles and other works as examples. Oral recitation is required of all students. Poetry is studied in the second half of the course. Topics include the oral-formulaic tradition, the verse types, and the mixture of Christian and pagan themes characteristic of the literature.

M 1501 505 CHAUCER**3 sh**

An intensive study of the *Canterbury Tales* and other works against their literary and social backgrounds, with special attention to Chaucer's language and to the tools of Chaucerian scholarship. No previous study of Middle English is required.

M 1501 508 SHAKESPEARE STUDIES: TRAGEDIES**3 sh**

Shakespeare's tragic drama against a background of classical and medieval theories of tragedy, and in relation to the practice of his contemporaries. Consideration is given to Shakespeare's use of plot sources and to Elizabethan theories of rhetoric.

M 1501 509 SHAKESPEARE STUDIES: COMEDIES**3 sh**

Shakespeare's comic art in the light of comic theory and practice from Aristotle to the present. Areas of analysis include Shakespeare's use of Roman and native English comedy, his language, characters, and sources, and the tradition of Shakespearean criticism.

M 1501 510 SHAKESPEARE STUDIES: HISTORIES**3 sh**

A study of the ten English history plays. Shakespeare's use of historical sources and variations from historical fact are examined carefully. Shakespearean scholarship, criticism, and production are also covered.

M 1501 511 ELIZABETHAN AND JACOBEOAN DRAMA**3 sh**

A comprehensive view of the period of the apex of English drama, from 1550 to the closing of the theaters in 1642. Major works by Elizabethan and Jacobean dramatists other than Shakespeare are studied in the light of Medieval English drama and the New Renaissance theories of Shakespeare's contemporaries. Attention is given to changes in subject matter, tone, dramaturgy, and staging during the latter part of the period.

M 1501 512 RENAISSANCE LITERATURE I: PROSE**3 sh**

Major prose writers of the sixteenth century, including Erasmus, More, Castiglione, Sidney, Lyly, Nashe, and Hooker. Attention is given to the development of satire, romance, the Picaresque, and Utopian fiction.

M 1501 513 RENAISSANCE LITERATURE II: POETRY**3 sh**

A study of English poetry of the sixteenth century, a period of major changes. The principal focus is on poets who contributed to the development of the English lyric (Wyatt, Surrey, Raleigh, Sidney, Shakespeare). The unique poetry of Edmund Spenser, particularly the "*Faerie Queene*," is also examined.

**M 1501 515 SEVENTEENTH CENTURY LITERATURE:
POETRY****3 sh**

The poetry of Donne, Jonson, Herbert, Marvell, and Milton, supplemented by historical and intellectual background and by selections from the work of Vaughan, Traherne, Crashaw, Herrick, Suckling, Lovelace, Carew, and Cowley. Stylistic categories such as the Metaphysical, the Classical, and the Meditative are considered in the light of a close critical analysis of the major poetry.

M 1501 516 SEVENTEENTH CENTURY LITERATURE: 3 sh
PROSE

English prose between the Elizabethan period and the age of Queen Anne, including the development of prose style and the origins of the short narrative, or scientific writings, and of modern literary criticism. Authors include Milton, Pepys, Bunyan, Walton, Burton, Bacon, Brown, and Aubrey.

M 1501 518 MILTON 3 sh

Paradise Lost, Paradise Regained, Samson Agonistes, and some of the minor works are analyzed intensively. Milton's styles, themes, and techniques are considered in the light of his life and the political and religious controversies of his times. The poetry is also studied in terms of its relation to Milton's Italian and Classical models, his Elizabethan masters, and his contemporaries.

M 1501 520 RESTORATION AND EIGHTEENTH-CENTURY 3 sh
DRAMA

Heroic, comic, and sentimental drama by playwrights from Dryden to Sheridan with emphasis on their reflection of the literary and social climate. Attention is also given to the Physical Theater and to the composition of the audience.

M 1501 521 THE AUGUSTAN AGE 3 sh

The literature of the Restoration and early eighteenth century in its cultural contexts. Topics include criticism and aesthetics, satire, the new nature poetry, and the relationship between literary forms and philosophical and critical ideas. Emphasis on the works of Dryden, Swift, Pope, Gay, Addison and Steele, and Thomson.

M 1501 597 INDEPENDENT STUDY IN BRITISH 3 sh
LITERATURE

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the Graduate Program Coordinator and of the Project Supervisor is required before registration.

BRITISH LITERATURE 1745—PRESENT

M 1501 525 THE ENGLISH NOVEL FROM DEFOE TO 3 sh
AUSTEN

The rise of the English novel and its various traditions: Comic, Realistic, Satirical, Psychological, and Gothic. Authors include Defoe, Richardson, Fielding, Smollett, Sterne, and Austen.

M 1501 529 BRITISH ROMANTICISM I: WORDSWORTH 3 sh
AND COLERIDGE

The poetry of the two most important writers of the first generation of the romantic movement in England. Emphasis is on the significance of their poetry in the contexts of the poets' own experience and of the age of democratic and industrial revolution.

M 1501 530 BRITISH ROMANTICISM II: BYRON, 3 sh
SHELLEY, AND KEATS

The major works of the second-generation romantics are studied in relation to the experience of their lives and the movements of their time. Attention is also given to their letters and critical writings.

M 1501 531 VICTORIAN STUDIES I: PROSE 3 sh

The responses of the major prose writers of the period to such issues as the rise of a large working class, the sudden growth of cities, demands for political freedom, and the promises and threats of science. The problems of establishing an aesthetic of nonfiction prose are also considered. Works by Carlyle, Mill, Arnold, Macaulay, Huxley, Newman, Pater, and Wilde.

M 1501 532 VICTORIAN STUDIES II: NOVEL 3 sh

The Victorian Novel in its historical and cultural contexts, with emphasis on the responses of the most vital art form of the age to the unprecedented changes in English life that took place during the era. Works by Thackeray, Trollope, Dickens, the Brontes, Eliot, Meredith, and Gissing.

M 1501 533 VICTORIAN STUDIES III: POETRY 3 sh

This course concentrates on the major mid-Victorian poets, Tennyson, Browning, and Arnold, and to a lesser extent on their successors among the pre-Raphaelites, the Aesthetes, and the Rhymers.

M 1501 535 HARDY, JOYCE, AND LAWRENCE 3 sh

An examination of the fiction of these three writers with special attention to the ways in which their work illuminates the transition to modern fiction, demonstrates the relationship between literary consciousness and society, and illustrates the cultural phenomenon of the artist repudiated by society.

M 1501 540 THE MODERN BRITISH NOVEL 3 sh

Innovations in characterization, narrative technique, and theme under the impact of major twentieth-century political, economic, and cultural developments. Works by Forster, Huxley, Waugh, Orwell, Greene, Amis, Murdoch, Lessing, and others.

M 1501 542 THE IRISH RENAISSANCE 3 sh

The Irish contribution to Twentieth-Century literature and aesthetic theory, specifically to that brand of experimentation, individualism, and internationalism associated with the idea of the modern. Special attention to W.B. Yeats, James Joyce, J.M. Synge, Sean O'Casey, and Frank O'Connor.

M 1501 597 INDEPENDENT STUDY IN BRITISH 3 sh
LITERATURE

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the Graduate Program Coordinator and of the Project Supervisor is required before registration.

AMERICAN LITERATURE

- M 1501 550 STUDIES IN EARLY AMERICAN LITERATURE 3 sh**
All major and several minor American writers of the seventeenth and eighteenth centuries are studied within several contexts: literary, religious, philosophical, and political. Topics include the development of American literature, 1620-1800; the effects of Puritanism and Deism; the concept of the American Dream; the originality of the founding fathers; and the extent to which modern American literature and culture reflect the Colonial heritage.
- M 1501 552 AMERICAN POETRY TO 1912 3 sh**
The continuity of American poetry as a national body of literature, with distinctively American themes, subjects, techniques, and critical theories; the shaping influences of English and continental writers, and the impact of American poets on their European contemporaries. Particular emphasis on Poe, Whitman, Emerson, Melville, Dickinson, Crane, and Robinson.
- M 1501 555 AMERICAN ROMANTICISM 3 sh**
An exploration of the Romantic Movement in America to its culmination in transcendentalism. Works by Emerson, Thoreau, Whitman, Irving, Cooper, and Bryant.
- M 1501 556 POE, HAWTHORNE, AND MELVILLE 3 sh**
An intensive examination of the writings of the three "Dark Romantics" of the American Renaissance, set against their biographical backgrounds and the literary and historical contexts in which they worked.
- M 1501 557 AMERICAN REALISM 3 sh**
The development of American realistic fiction, with emphasis on the works of Twain, Howells, and James in relation to their literary heritage.
- M 1501 560 MODERN AMERICAN FICTION 3 sh**
After a brief examination of late nineteenth-century realism, the major writers of the twentieth century (up to World War II) are studied with special attention to the critical attitudes of the period and to related scholarship. Authors include Dreiser, Stephen Crane, Sherwood Anderson, Hemingway, and Faulkner.
- M 1501 561 MODERN AMERICAN POETRY 3 sh**
Beginning with background material on late nineteenth-century poetry, the course examines selected major modern poets. The changing scene in modern poetry is noted, and the reading of contemporary poets is included. Works by Hart, Crane, Hilda Doolittle, T.S. Eliot, Robert Lowell, Ezra Pound, Wallace Stevens, and others.
- M 1501 563 RECENT AMERICAN FICTION 3 sh**
Fiction of approximately the last twenty years in the context of American culture and the traditions of American fiction. The course analyzes the characteristics of theme, technique, and sensibility that form the basis of a writer's response to the ambiguities of life in the contemporary world. Works by Bellow, Mailer, Roth, Oates, Updike, Didion, O'Connor, Walker, Godwin, Brautigan, Ellison, Baldwin, and others.

M 1501 564 AMERICAN DRAMA**3 sh**

The major American playwrights, such as Eugene O'Neill, Thornton Wilder, Arthur Miller, and Tennessee Williams, are placed in the perspective of their contemporaries and of the traditions of the American State. Attention is given to the emergence of a truly American theater.

M 1501 598 INDEPENDENT STUDY IN AMERICAN LITERATURE**3 sh**

The student completes a research project under the supervision of a member of the Graduate Faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the Graduate Program Coordinator and of the Project Supervisor is required before registration.

COMPARATIVE LITERATURE**M 1503 512 LITERARY CRITICISM TO 1800****3 sh**

Plato, Aristotle, Horace, Longinus, and their imitators and interpreters in the Medieval, Renaissance, and Neoclassical periods are studied for those ideas about the nature and value of literature which have been influential in our culture. Considerable attention is given to relating the critical works to the history, art, and principal writings of each period.

M 1503 513 LITERARY CRITICISM FROM 1800 TO THE PRESENT**3 sh**

The break from classical theory (notably by the Romantics) and the search, principally in our own day, for new definitions of the nature and function of literature. Throughout the course, critical theory is related to the history, art, and principal writings of each period.

Prerequisites: M 1503 512 or Permission of Instructor.

M 1503 515 ANCIENT TRAGEDY**3 sh**

Selected plays of Aeschylus, Sophocles, Euripides, and Seneca in English translation; origins of Greek and Roman tragedy; religion and myth in tragedy; Aristotelian criticism; stage production; the influence of ancient tragedy on modern literature.

M 1503 516 ANCIENT COMEDY**3 sh**

Reading, discussion, comparison, and criticism of selected plays of Aristophanes, Menander, Plautus, and Terence. Origins and development, staging, and theories of old and new comedy at Athens and of Roman comedy; mime; farce; influences on later comedy.

M 1503 517 ANCIENT EPIC**3 sh**

The Iliad, Odyssey, and Aeneid in English translation. Ancient and modern literary criticism of Homer and Virgil; oral versus literary epic; history, folklore, and saga in the ancient epic; basic epic themes (man as hero, Fate, man and the gods, etc.); Homeric and Virgilian influence on subsequent literature.

M 1503 535 THE ENLIGHTENMENT IN EUROPE 3 sh

A comparative study of literature and ideas in eighteenth-century Europe, focusing on English, French, and German literature, with some attention to Italian and Spanish. Major literary and philosophical trends are analyzed, including the rational and satirical attack on traditional values and the current of "sensibility" which stressed the powers of the emotions and the senses. Works by Swift, Voltaire, Fielding, Diderot, Johnson, Rousseau, Prevost, Goethe, Lessing, and others.

M 1503 565 IBSEN, STRINDBERG, AND SHAW 3 sh

Three great forerunners of Twentieth-Century drama are studied intensively.

M 1503 569 MAJOR NEO-AFRICAN WRITERS 3 sh

Literary analysis of the most accomplished modern authors of African descent in the light of European, American, and African scholarship. Works by Machado de Assis, Sterling A. Brown, Aimé Césaire, Paul Lawrence Dunbar, Leopold Senghor, Gwendolyn Brooks, Nathan Scott, and others.

M 1503 570 THE MODERN NOVEL 3 sh

Selected works by European, English, and Latin American masters, illustrating the evolution of the novel during the twentieth century and the development in fiction of modern concepts of space, time, dreams, and psychology. Works by James, Proust, Kafka, Dos Passos, Woolf, Gide, Mann, Hesse, Stein, Beckett, and others.

M 1503 571 TRENDS IN THE CONTEMPORARY NOVEL 3 sh

A study of eight to twelve novels written since 1950 in English, French, German, Spanish, and Italian, selections distributed evenly among the languages. Emphasis will be upon literary trends common to the contemporary novel regardless of the language in which it is written. Representative authors include Fowles, Ellison, Cortazar, Garcia Márquez, Goytisolo, Sollers, Duras, Böll, Frisch, and Moravia.

M 1503 575 MYTH: ORIGINS AND DEVELOPMENT 3 sh

Selected world mythologies, both occidental and oriental, are studied comparatively against a background of theories concerning their origins, development, symbols, and motifs, as well as their significance to literary and interdisciplinary studies. Emphasis on the archetypal and related theories. The first part of a two-part course, but may be taken as complete in itself.

M 1503 576 MYTH: THEORY AND PRACTICE 3 sh

The theoretical and mythic backgrounds from 1503:575 are applied to a study of archetypal and related criticism and to literary analysis. The creative process and the origins of literary form, theme, character, genre, imagery, and tone are intensively explored.

M 1503 577 FILM STUDIES 3 sh

On a rotating basis, different cultural and historical aspects of American, British, or world film will be examined. See current announcement. Students may repeat film studies as long as the topic is different each time.

M 1503 599 INDEPENDENT STUDY IN COMPARATIVE LITERATURE 3 sh

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the Graduate Program Coordinator and of the Project Supervisor is required before registration.

ENGLISH EDUCATION

M 1501 580 RECENT RESEARCH AND EXPERIMENT IN THE TEACHING OF ENGLISH 3 sh

A workshop that aims to apprise students of recent research, thought, and practice in the various areas of English teaching, with emphasis on the secondary school.

M 1501 581 TEACHING WRITING 3 sh

In a workshop format, secondary school and college teachers of writing explore current theory and practice in the teaching of writing. Participants develop instructional materials based on sound theory.

M 1501 582 TEACHING BASIC WRITING 3 sh

The basic writer has severe difficulties with the language, conventions, and mechanics of academic writing and is therefore usually placed in "remedial" courses in high school and college. This course explores the social, educational, and linguistic causes of these students' problems, and helps secondary school and college teachers to develop a coherent approach to basic writing instruction. In the course of the semester, the teachers also create and share practical teaching techniques.

M 1501 583 TEACHING LITERATURE 3 sh

Current or future teachers of literature become familiar with the process of literary reading, study relevant theory, practice, and research on the teaching of literature, and develop a consistent teaching approach based on a sound understanding of the literary experience.

SEMINARS

M 1501 600 SEMINAR IN BRITISH LITERATURE 3 sh

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the British seminar as long as the topic is different each time.

M 1501 601 SEMINAR IN AMERICAN LITERATURE 3 sh

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the American seminar as long as the topic is different each time.

M 1503 602 SEMINAR IN COMPARATIVE LITERATURE 3 sh

Advanced study of an author, genre, movement, theme or critical theory. See current announcement for specific topic. Students may repeat the comparative seminar as long as the topic is different each time.

WRITING SEMINAR

M 1507 590 GRADUATE WRITING SEMINAR

3 sh

The seminar offers graduate students the opportunity to develop their skills in a specific kind of writing. In a given semester, the course will focus on one or more of the following: essay, business report, technical report, scholarly research, autobiography, fiction, drama, or poetry. This course is not intended for students with serious writing problems.

Prerequisite: Permission of Instructor.

REQUIRED COURSES

M 1501 605 SEMINAR IN LITERARY RESEARCH

3 sh

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism, and the basics of editing. Recommended for the first or second semester of graduate study.

M 1501 606 THESIS WRITING

3 sh

Working closely with a research advisor, the student conducts a scholarly investigation and completes an acceptable master's thesis.

M 1503 605 SEMINAR IN LITERARY RESEARCH: COMPARATIVE FOCUS

3 sh

An introduction to the principal methods of scholarly and critical inquiry practiced in the discipline of Comparative Literature.

Prerequisites: Comparative Literature majors only. Instructor's permission required.



ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Program Director: Dr. David K. Robertson

Graduate Advisor: Dr. W. Augustus Rentsch

The Master of Arts degree in Environmental Studies offers concentrations in Environmental Education, Environmental Health, Environmental Management, and Environmental Science. Each of the concentrations is designed for professional careers. Environmental Education serves the needs of teachers; Environmental Health serves the need of health professionals; Environmental Management serves government and business leaders; and Environmental Science serves industry. The program is administered by the Department of Environmental, Urban and Geographic Studies. The facilities of the New Jersey School of Conservation, operated by the College at Stokes State Forest, are available as an additional resource for the study of the natural environment.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation of the College will be followed in respect to this program. Students with weak undergraduate preparation for Environmental Studies will be required to complete prerequisite courses at the undergraduate level and/or appropriate graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENVIRONMENTAL STUDIES

(minimum 32-33 semester hours)

CONCENTRATION IN ENVIRONMENTAL EDUCATION

I.	Required Courses	21 sh
	0824 503 Methods of Research (must be taken within first two semesters)	3 sh
	4951 508 Environmental Problem Solving	3 sh
	4951 509 Environmental Change and Communication	3 sh
	0401 570 Ecology, OR	3 sh
	0843 505 Society and Natural Environment	3 sh
	4951 550 Environmental Education	3 sh

	0843 500	Curriculum Development in Environmental Education	3 sh
		(a field practicum)	3 sh
II.	Required Research Option		6 sh
	Option A		
	4951 600	Thesis	6 sh
	Option B		
	0829 534	Strategies for Curriculum Change	3 sh
	4951 695	Research Project in Environmental Studies	3 sh
III.	Required Electives		6 sh
	0401 430	Field Ornithology	3 sh
	0401 431	Entomology	3 sh
	0401 521	Field Studies of Flowering Plants	3 sh
	0401 523	Mycology	3 sh
	0821 540	Social Forces and Education	3 sh
	0829 534	Strategies for Curriculum Change	3 sh
	0837 532	Air Pollution	3 sh
	0842 431	Individual and Group Dynamics	3 sh
	0843 495	Workshop Utilizing Natural Environments	1 sh
	0843 496	Field Studies in Social Studies and Natural Science	1 sh
	0843 497	Field Studies in Social Studies and Outdoor Recreation	1 sh
	0843 501	Outdoor Teaching Sites for Environmental Education	3 sh
	0843 502	American Heritage Skills	3 sh
	0843 503	Humanities and the Environment	3 sh
	0843 504	Field Techniques for Teaching the Humanities ..	3 sh
	0843 554	Practicum in Environmental Education	3 sh
	2202 534	Anthropology and Education	3 sh
	0990 497	Historical Restoration	1-9 sh
	2206 509	Water Resource Management	3 sh
	4951 409	Legal Aspects of Environmental Law	3 sh
	4951 531	Independent Study in Environmental Studies	1-4 sh
	4951 551	Conservation Education	3 sh
	2208 565	Sociology of Youth	3 sh
IV.	Comprehensive Examination		

CONCENTRATION IN ENVIRONMENTAL HEALTH

I.	Required courses		18 sh
	0401 570	Ecology	3 sh
	0837 502	Determinants of Environmental Health	3 sh
	4951 508	Environmental Problem Solving	3 sh
	4951 509	Environmental Change and Communication	3 sh
	0837 603	Research Project in Health	3 sh

II.	Required electives	12 sh
	A minimum of 6 sh from elective areas A and B each	
	A. Health Services Area	
	0836 501 Selected Developments in Safety	3 sh
	0837 500 Health Aspects of Family Living	3 sh
	0837 516 Selected Developments in Community Health	3 sh
	0837 528 Evaluation in Health	3 sh
	0837 530 Seminar in Basic Issues in Health	3 sh
	0837 531 Independent Study in Health	3 sh
	0837 535 History and Foundations of Health I	3 sh
	0837 536 History and Foundations of Health II	3 sh
	B. Life Sciences Area	
	0837 531 Independent Study in Health	3 sh
	0837 532 Air Pollution	3 sh
	0401 515 Radiation Biology	4 sh
	0401 531 Medical Parasitology	3 sh
	0401 540 Comparative Human Anatomy	4 sh
	0401 543 Comparative Immunology	3 sh
	0401 553 Microbial Ecology	4 sh
	1220 539 Environmental Noise	3 sh
	2206 509 Water Resource Management	3 sh
III.	Electives	3 sh
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL MANAGEMENT

I.	Required Courses	15 sh
	0401 570 Ecology	3 sh
	4951 508 Environmental Problem Solving	3 sh
	4951 509 Environmental Change and Communication	3 sh
	2206 521 Research Methods and Techniques	3 sh
	4951 610 Seminar: Environmental Management	3 sh
II.	Required Electives	12 sh
	A minimum of 6 sh from elective areas A and B each	
	A. Scientific Data and Concepts Area	
	0837 502 Determinants of Environmental Health	3 sh
	1220 539 Environmental Noise	3 sh
	1905 411 Water Analysis and Purification	3 sh
	1914 525 Environmental Geoscience	3 sh
	1914 558 Coastal Geomorphology	3 sh
	2001 556 Environmental Psychology	3 sh
	2202 411 Archeological Field Methods	3 sh
	4951 531 Independent Study in Environmental Studies	1-4 sh
	B. Policy-making, Analysis and Management Area	
	2001 553 Urban Psychology	3 sh
	2204 501 Economic Analysis	3 sh

	2204	508	Economics of Public Management	3 sh
	2204	510	Urban Economics	3 sh
	2206	501	Air Resource Management	3 sh
	2206	505	Human Environment	3 sh
	2206	509	Water Resource Management	3 sh
	2206	510	Urban Systems and Planning	3 sh
	2206	511	Urban and Regional Planning	3 sh
	2206	550	Urban Studies and Policy Analysis	3 sh
	2206	551	The Metropolitan Economy	3 sh
	2207	501	Public Administration and Public Policy	3 sh
	2208	564	Social Planning	3 sh
	4951	409	Legal Aspects of Environmental Law	3 sh
	4951	531	Independent Study in Environmental Studies	1-4 sh
	4951	537	Natural Resource Management	3 sh
III.	Electives			6 sh
IV.	Comprehensive Examination			

CONCENTRATION IN ENVIRONMENTAL SCIENCE

I.	Required Courses			15 sh
	0401	570	Ecology	3 sh
	0837	502	Determinants of Environmental Health	3 sh
	1914	525	Environmental Geoscience	3 sh
	1914	575	Geochemistry	3 sh
	1914	628	Seminar: Environmental Graphics	3 sh
II.	Required Electives			12 sh
	A minimum of 6 sh from elective areas A and B each			
	A. Bio-ecology Area			
	0401	430	Field Ornithology	3 sh
	0401	467	Marine Biology of the Fishes	4 sh
	0401	521	Field Studies of Flowering Plants	4 sh
	0401	522	Plant Pathology	3 sh
	0401	531	Medical Parasitology	3 sh
	0401	532	Insect Ecology and Behavior	3 sh
	0401	543	Comparative Immunology	3 sh
	0401	550	Topics in Microbiology	4 sh
	0401	553	Microbial Ecology	4 sh
	0401	571	Physiological Plant Ecology	4 sh
	0401	572	Ecology of the Estuary	4 sh
	0401	573	Benthic Ecology	4 sh
	0499	505	Bacteriological Techniques in Marine Sampling	2 sh
	1999	565	Tidal Marsh Ecology	4 sh
	B. Physical Environment Area			
	0837	532	Air Pollution	3 sh
	1220	539	Environmental Noise	3 sh
	1905	411	Water Analysis and Purification	3 sh

1905 570	Advanced Biochemistry	3 sh
1914 530	Paleoecology	3 sh
1914 537	Biostratigraphy of New Jersey	3 sh
1914 558	Coastal Geomorphology	4 sh
1914 560	Advanced Marine Geology	3 sh
1914 571	Geophysics	3 sh
1914 573	Nuclear Geophysics	3 sh
2206 509	Water Resources	3 sh

III. Comprehensive Examination

Note:

1. Electives for all these concentrations may be added by the college. The advisor should be contacted before any are selected by the student.
2. It is the student's responsibility to file for the comprehensive examination with the departmental advisor. At that time, information will be given concerning the nature and scope of the examination.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Course Descriptions

N 2206 501 AIR RESOURCE MANAGEMENT 3 sh

Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.

N 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY 3 sh

Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.

N 2206 503 CULTURE REGIONS 3 sh

Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space and the diffusion process.

N 2206 504 PRO-SEMINAR 3 sh

Research on selected problems which will vary according to instructor.

N 2206 505 HUMAN ENVIRONMENT 3 sh

Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.

N 2206 509 WATER RESOURCE MANAGEMENT 3 sh

The spatial patterns of the water resource both as surface water and ground water. Processes affecting availability and techniques of estimation are stressed.

Prerequisite: N 4951 501.

N 2206 510 URBAN SYSTEMS ANALYSIS 3 sh

The complexity of the city and its modification by means of planning the systems approach to urban study, the ecological base, different models of urban systems, the impact of technological change, the hierarchy of urban regions; planning in the existing systems and creating new ones.

N 2206 511 URBAN AND REGIONAL PLANNING 3 sh

Urban and regional planning, analyzing planning goals at an integral level, and rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

N 2206 520 LANDSCAPES IN TRANSITION 3 sh

The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

N 2206 521 RESEARCH METHODS AND TECHNIQUES IN GEOGRAPHY AND URBAN STUDIES 3 sh

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical, mapping techniques, and the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3 sh

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3 sh

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective, the interaction of different social, cultural, economic, political and planning forces are examined for their impact upon the resulting system.

N 2206 551 THE METROPOLITAN ECONOMY 3 sh

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inner city relationships. Urban design planning juxtaposed with multi-faceted decision making processes for an examination of their relative position in the management of urban systems.

N 2206 603 READING SEMINAR IN GEOGRAPHY & URBAN STUDIES 3 sh

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3 sh

This seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

N 4951 501 ENVIRONMENTAL STUDIES—PHYSICAL 3 sh

Establishes a systems concept in developing understandings of the inextricable relationships between all physical, natural, behavioral and social sciences. Examines man's existence as it intertwines not only with all other living things, but with the energy and resource cycles within our solar system as well. The earth is viewed as a holistic ecological system.

N 4951 502 ENVIRONMENTAL STUDIES—SOCIAL BEHAVIOR 3 sh

Establishes a systems concept in developing understandings of the inextricable relationships between all physical, natural, behavioral and social sciences. Examines man's existence as it intertwines not only with all other living things, but with the energy and resource cycles within our solar system as well. The earth is viewed as a holistic ecological system.

N 4951 503 METHODS IN ENVIRONMENTAL RESEARCH 3 sh

The purpose of this course is to give students an overview of the methodology of research in environmental science and an understanding of the problems of conducting such research. Although students are not expected to be able to do research without supervision after successfully completing the course, they should be able to read primary sources and critically evaluate them.

N 4951 508 ENVIRONMENTAL PROBLEM SOLVING 3 sh

The purpose of this course is directed toward training students to define environmental problems, develop their skills in how to solve these problems, and work toward their solution. Each lesson consists of student preparation through reading selected articles, classroom orientation, field trips, and the student-instructor followup. Field trip topics include pedestrian/vehicle conflict, school site development, plants as a city resource, urban/rural recreation sign ordinances, transportation and similar topics.

**N 4951 509 ENVIRONMENTAL CHANGE AND
COMMUNICATION**

3 sh

To provide an environmentalist with the history, concept, and internalization of skills necessary to be a professional environmentalist. Special emphasis is upon affecting change in institutional arrangements and communicating with institutions. Thus, the role(s) of professional environmentalists as catalyst, solution giver, method helper, and means-linker in the process of planned change are components of this course. In addition, the role of professional environmentalist as a communications expert to enhance and implement planned change is emphasized in use of both verbal and non-verbal communication techniques.

**N 4951 531 INDEPENDENT STUDY IN
ENVIRONMENTAL STUDIES**

1-3 sh

A course to provide an opportunity for independent study in environmental studies through practical experience in a selected aspect. The independent study is designed to be either research or non-research oriented. If the study is non-research oriented, arrangements are made for an assignment to a public or private agency, voluntary organization public or private agency, voluntary organization or, in some cases, a business or industrial concern. The practical work experience is designed to serve as a basis for an independent study which is supervised by a departmental faculty member and a qualified professional within the assigned institution. A final report or document based on independent study, as well as required reading is required of all students who participate. Credit may be variable.

N 4951 550 ENVIRONMENTAL EDUCATION

3 sh

The basic goal of this course is to provide an atmosphere in which the student will gain a greater insight and awareness of him/herself as an individual through exploration into his/her interests, values, skills and abilities, and his/her knowledge of the world of work through guided research, interviews, lectures, discussions, and panel speakers.

N 4951 551 CONSERVATION EDUCATION

3 sh

Provides background in natural resource management, wildlife, fisheries, forests, water and related components of spaceship earth. Includes field trips.

**N 4951 610 SEMINAR IN ENVIRONMENTAL
MANAGEMENT**

3 sh

This is a methods seminar focusing on the techniques of managing a project with environmental significance. Students will design and plan in detail a project to improve an existing environmental problem or to implement an economically important project that would minimize environmental problems.

Prerequisites: N 4951 501, N 4951 502 or Instructor's Permission.

N 4951 628 SEMINAR IN ENVIRONMENTAL GRAPHICS 3 sh

The use of graphic materials suitable for analyzing, understanding and presenting aspects of the environment through seminar presentation. The preparation of illustrative materials, especially suitable for inclusion in environmental impact statements as well as for public presentation, will be developed by each student as a culminating research project.

Prerequisites: At least 12 hours of graduate credits in environmental science or with Permission of the Instructor.

N 4951 695 RESEARCH PROJECT IN ENVIRONMENTAL STUDIES 3 sh

To complete the research proposal initiated in the research methods course.

Prerequisites: 4 0824 503 or N 4951 503 or N 2206 521, Instructors Permission.

N 4951 697 THESIS 6 sh

Preparation and defense of a thesis in Environmental Studies.

Prerequisite: Approval of the Department Chairperson, the Graduate Advisor, and the Faculty Thesis Advisor.

FINE ARTS

Chairperson: Dr. Charles H. Martens

Graduate Advisor: Dr. Peter Barnet

The graduate program in Fine Arts allows for a concentration in Studio, Art Education, Art History, or the Visual Arts. Areas of specialization in Studio are: Painting, Sculpture, Graphic Design, Photography, Cinematography, Drawing, Ceramics, Printmaking, Fiber Arts and Jewelry. Art Therapy courses contribute points toward an ATR Certification.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program.

Eligibility for matriculation requires either an undergraduate degree in fine arts or the equivalent as determined by the art department. A strong background in both art history and studio work is expected. A portfolio of representative art work will be required as evidence of the

applicant's ability. Advice concerning all requirements may be obtained from the department's graduate advisor.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FINE ARTS

- I. Required courses for all Fine Arts MA candidates.

Graduate Art History	6 sh
Graduate Project or Thesis	6 sh

Either

 - A. Graduate Project

1001 695 Seminar in Art I	3 sh
1001 696 Seminar in Art II	3 sh
 - Or*
 - B. Master's Thesis

1001 697 Master's Thesis I	3 sh
1001 698 Master's Thesis II	3 sh
 - II. Art Electives 15 sh
To be selected with approval of the Graduate Advisor.
 - III. Free Electives 6 sh
 - IV. Final Oral Examination in relation to Graduate Project or Master's Thesis.
- In addition to the successful completion of all required course work all candidates are required to make a final presentation of either a body of visual work from their area of concentration, a Master's Thesis or a combination of visual and written work. Advice concerning this requirement may be obtained from the department's graduate advisor.
- | | |
|---------------|-------|
| Minimum | 33 sh |
|---------------|-------|

FINE ARTS

Course Descriptions

- | | |
|--|------|
| G 0831 501 CONTEMPORARY VIEWPOINTS IN ART
EDUCATION | 3 sh |
|--|------|

A study of art literature which influences art educators in their teaching. Readings will be in papers and books selected from philosophy, sociology, psychology and aesthetics which deal primarily with various classifications within the discipline. The practical implementation with the educational setting, will be analytically discussed.

G 0831 502	ADVANCED CURRICULUM CONSTRUCTION IN ART EDUCATION	3 sh
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For students with interest in curriculum construction or revision, both in the elementary and secondary programs. Evaluation of curricular materials in use in New Jersey and throughout the country in terms of principles of curriculum construction.

G 0831 505 SUPERVISION AND EVALUATION IN ART EDUCATION 3 sh

Supervisory methods and techniques for the experienced art teacher. Current and analogous supervisory data will be included. Will be based on state criteria and ways of evaluating from creative viewpoints.

G 0831 506 STUDIO TECHNIQUES ART THERAPY 3 sh

The development of a repertoire of art therapy skills in various media to facilitate meeting the expressive needs in art therapy settings.

Prerequisite: Acceptance into art therapy concentration.

G 1001 515 GRADUATE LIFE DRAWING I 3 sh

Advanced problems in drawing based upon a study of the human figure.

G 1001 516 GRADUATE LIFE DRAWING II 3 sh

Continuation of G 1001 515 Taken serially.

G 1001 600 MASTER'S THESIS I 3 sh

A serious research project in art for the student finishing his course work.

G 1001 601	GRADUATE LIFE DRAWING III	2 sh
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Continuation of G 1001 516 Taken serially.

G 1001 602 GRADUATE LIFE DRAWING IV 3 sh

Continuation of G 1001 601 Taken serially.

G 1001 610 INDEPENDENT STUDY I 1 sh

Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his/her prior work in the chosen media. Credits to be arranged. May be repeated for credit.

Prerequisite: Permission of the Department.

G 1001 611 INDEPENDENT STUDY II 1 sh

Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his prior work in the chosen medium. Credits to be arranged.

Prerequisite: Permission of the Department.

G 1001 620 FIELD COURSE IN ART I **2 sh**

Travel courses to art sources in the United States and foreign countries not to exceed 6 graduate credits. First-hand contact with the historic art forms of the places visited and with artists and craftsmen. Each student selects an area of study in which the places visited have rich art resources. As preparation for the course, the student outlines a chosen study problem, reads background material, and lists sources he/she expects to utilize.

Prerequisite: Permission of the Department. Taken serially.

G 1001 621 FIELD COURSE IN ART II **2 sh**

Continuation of G 1001 620. Taken serially.

Prerequisite: Permission of the Department. Taken serially.

G 1001 695 SEMINAR IN ART I (WITH GRADUATE PROJECT) **3 sh**

An opportunity to make an extensive study in the field of art through the fall and spring semesters. The student examines and defines a problem and explores it in increasing depth and significance. The project may be a written document or a studio project. Students are advised to initiate these projects after completing at least two courses on a graduate level in the area of the project, and no more than 12 to 16 credits in their general program. Approval for 695 should be secured in the spring and summer session preceding fall registration for the course. Approval is gained from 1) the instructor as to competence in the medium, or background preparation, 2) a faculty member who will serve as personal advisor throughout the project, 3) the departmental graduate advisor who will conduct the 695, 696 seminar.

G 1001 696 SEMINAR IN ART II (WITH GRADUATE PROJECT) **3 sh**

Continuation of G 1001 695. Taken serially.

G 1002 511 GRADUATE PAINTING I **3 sh**

Studio in painting to further the creative expression and technical knowledge of the student in various painting media personal and professional development through studio work, trips and the study of the contemporary artists.

Prerequisite: Permission of the Department. Taken serially.

G 1002 512 GRADUATE PAINTING II **3 sh**

Continuation of G 1002 511. Taken serially.

G 1002 521 GRADUATE SCULPTURE I **3 sh**

The student explores independently one or two materials and techniques, and begins to find directions as a sculptor.

G 1002 522 GRADUATE SCULPTURE II **3 sh**

Continuation of G 1002 521. Taken serially.

G 1002 558 GRADUATE LETTERING I **3 sh**

Styles and techniques of lettering applied in such forms as manuscripts, signs, posters, display and advertising layout, brief introduction to typography.

Prerequisite: Permission of the Department. Taken serially.

- G 1002 559 GRADUATE LETTERING II** **3 sh**
Continuation of G 1002 558. Taken serially.
Prerequisite: G 1002 558, majors only.
- G 1002 560 GRAPHIC DESIGN I** **3 sh**
Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer.
Prerequisite: Permission of the Department. Taken serially.
- G 1002 561 GRAPHIC DESIGN II** **3 sh**
Continuation of G 1002 560. Taken serially.
- G 1002 605 GRADUATE PAINTING III** **3 sh**
Continuation of G 1002 512. Taken serially.
- G 1002 606 GRADUATE PAINTING IV** **3 sh**
Continuation of G 1002 0605. Taken serially.
- G 1002 607 GRADUATE PAINTING V** **3 sh**
Advanced study in painting; individual projects in various media. Readings in contemporary art, visits to museums and galleries.
Prerequisite: Permission of the Department. Taken serially.
- G 1002 608 GRADUATE PAINTING VI** **3 sh**
Continuation of G 1002 607. Taken serially.
- G 1002 613 GRADUATE SCULPTURE III** **3 sh**
Continuation of G 1002 522. Taken serially.
- G 1002 614 GRADUATE SCULPTURE IV** **3 sh**
Continuation of G 1002 613. Taken serially.
- G 1003 590 MODERN PHILOSOPHIES OF ART I** **3 sh**
Major writers in art in the nineteenth and twentieth centuries. The nature of the creative experience art in the life of the individual and of society; the creative process; new materials; institutions and sentiments affecting current thinking in the field. Discussions based on reading of philosophers, poets, social scientists and psychologists.
- G 1003 591 MODERN PHILOSOPHIES OF ART II** **3 sh**
The writings of 19th and 20th century artists and their interpreters; such works as the "Futurist's Manifesto" and Kandinsky's "The Spiritual in Art."
- G 1003 592 SELECTED PROBLEMS ART HISTORY I** **3 sh**
Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the special areas of the professor or guest professor invited for the semester.
Prerequisite: Permission of the Department.
- G 1003 593 SELECTED PROBLEMS ART HISTORY II** **3 sh**
Continuation of G 1003 592. Taken serially.

G 1003 594 NORTHERN RENAISSANCE ART 3 sh

15th and 16th century paintings in northern Europe especially Flanders and Holland, the development of realism and style in relation to social change and the general ideas of the period, including contemporary music. Jan Van Eyck, Van Der Weyden, Bosch, Peter Breughel and Matthias Gruenewald.

Prerequisite: Permission of the Department.

G 1010 505 FILM AS A VISUAL ART 3 sh

An understanding of the development of the motion picture as an art form. Viewing, analysis, reading, and/or actual participation in the production of film images.

Prerequisite: Permission of the Department.

G 1010 580 GRADUATE CINEMATOGRAPHY I 3 sh

Techniques, materials and theories of motion picture production for visually experienced students.

G 1010 581 GRADUATE CINEMATOGRAPHY II 3 sh

Continuation of G 1010 580. Taken serially.

G 1010 615 GRADUATE CINEMATOGRAPHY III 3 sh

Continuation of G 1010 581. Taken serially.

G 1010 616 GRADUATE CINEMATOGRAPHY IV 3 sh

Continuation of G 1010 615. Taken serially.

**G 1011 570 GRADUATE INTRODUCTORY PHOTOGRAPHY: 3 sh
A CONTEMPORARY ART FORM**

Provides for the in-depth study and practice of photography as a visual language. Encourages exploration beyond the camera through studio work, discussions, criticism, films, trips and demonstrations.

Prerequisites: 10 sh in Art. Permission of the Department.

**G 1011 571 GRADUATE INTERMEDIATE PHOTOGRAPHY: 3 sh
A CONTEMPORARY ART FORM**

Workshop, discussion, lectures, criticism, demonstrations: photography for self expression and greater visual awareness. Creative controls craftsmanship, perception, presentation and the fine points will be investigated.

Prerequisite: G 1001 570.

**G 1011 609 GRADUATE ADVANCED PHOTOGRAPHY: A 4 sh
CONTEMPORARY ART FORM**

Workshop, discussion, lecture, demonstrations, criticism. Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, zinc system and view camera will be investigated.

Prerequisite: G 1011 571.

G 1011 617 GRADUATE SPECIAL PROCESSES IN PHOTOGRAPHY 4 sh

Investigation of non-traditional light sensitive materials for use in the photographic image making process. Extending traditional boundaries of photography through new tools that permit greater image manipulation gum bichromate, cyanotype, platinum, photo etching, and others will be investigated.

Prerequisite: G 1011 609.

G 1090 525 GRADUATE METALWORK AND JEWELRY I 3 sh

Designing jewelry and small sculpture in varied metals; the techniques of flat sheet metal and casting.

Prerequisites: Permission of department.

G 1090 526 GRADUATE METALWORK & JEWELRY II 3 sh

Continuation of 1090 525. Taken serially.

G 1090 531 GRADUATE CERAMICS: POTTERY AND SCULPTURE I 3 sh

Experimentation with the potter's wheel; handbuilding methods of forming; further experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor.

G 1090 532 GRADUATE CERAMICS: POTTERY AND SCULPTURE II 3 sh

Continuation of G 1090 531.

Prerequisite: Undergraduate experience in ceramics, portfolio and approval of instructor. Taken serially.

G 1090 540 GRADUATE PROBLEMS IN TEXTILE RESEARCH 3 sh

The effect of centuries of textile traditions on the modern fiber artist.

Prerequisite: Permission of the Department.

G 1090 541 FORM IN FIBER I (GRADUATE) 3 sh

Designing with simple and four harness floor looms, in a variety of techniques and materials.

Prerequisites: 10 sh in Art, permission of the department.

G 1090 542 FORM IN FIBER II (GRADUATE) 3 sh

Primary emphasis on designing with simple and four harness table and floor looms. A variety of techniques and materials.

Prerequisite: Permission of the Department. Taken serially.

G 1090 543 GRADUATE DECORATION OF FABRICS I 3 sh

Survey course in all aspects of fabric embellishment; tie-dye, batik, blockprint, tritik discharge, silkscreen printing, 3 M Matrix, etc.

Prerequisite: Permission of the Department. Taken serially.

- G 1090 544 GRADUATE DECORATION OF FABRICS II 3 sh**
Continuation of G 1090 543.
Prerequisite: Permission of the Department. Taken serially.
- G 1090 545 GRADUATE OFF-LOOM TEXTILES I 3 sh**
Development of forms through a variety of off-loom techniques used singly or in combination.
Prerequisites: Permission of the Department. Taken serially. G 1090 543; G 1090 544.
- G 1090 546 GRADUATE OFF-LOOM TEXTILES II 3 sh**
Continuation of G 1090 545. Taken serially. Fabric embellishment which were begun in graduate decoration of Fabric I, II, III.
- G 1090 618 GRADUATE METALWORK AND JEWELRY III 3 sh**
Continuation of G 1090 526. Taken serially.
Prerequisite: Permission of the Department.
- G 1090 619 GRADUATE METALWORK AND JEWELRY IV 3 sh**
Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting. Continuation of G 1090 618. Taken serially.
Prerequisite: Permission of the Department.
- G 1090 622 GRADUATE CERAMICS POTTERY AND SCULPTURE III 3 sh**
Continuation of G 1090 532.
Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor. Taken serially.
- G 1090 623 GRADUATE CERAMICS POTTERY AND SCULPTURE IV 3 sh**
Continuation of G 1090 622.
Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor. Taken serially.
- G 1090 624 FORM IN FIBER III 3 sh**
Continuation of G 1090 542.
Prerequisites: Permission of the Department. Taken serially.
- G 1090 625 FORM IN FIBER IV 3 sh**
Continuation of G 1090 624.
Prerequisites: Permission of the Department. Taken serially.
- G 1090 626 FORM IN FIBER V 3 sh**
Continued experimentation with on-loom and off-loom weaving techniques synthetic and vegetable dyes.
Prerequisite: Permission of the Department. Taken serially.
- G 1090 627 FORM IN FIBER VI 3 sh**
Continuation of G 1090 626.
Prerequisite: Permission of the Department. Taken serially.
- G 1090 630 GRADUATE DECORATION OF FABRIC III 3 sh**
Continuation of G 1090 544.
Prerequisite: Permission of the Department. Taken serially.

- G 1090 631 GRADUATE DECORATION OF FABRIC IV** 3 sh
Continuation of G 1090 630.
Prerequisite: Permission of the Department. Taken serially.
- G 1090 632 GRADUATE OFF-LOOM TEXTILES III** 3 sh
Intensive consideration of all fiber construction techniques that do not depend on the loom; choice of one technique for intensive study. Taken serially.
Prerequisite: G 1090 546, majors only.
- G 1090 633 GRADUATE OFF-LOOM TEXTILES IV** 3 sh
Intensive work in a chosen non-loom textile technique, eg., knotting. Taken serially.
Prerequisite: G 1090 632, majors only.
- G 4921 552 GRADUATE PRINTMAKING I** 3 sh
Advanced work in various print processes; emphasis on the development of images and concepts as they relate to the printmaking media.
- G 4921 553 GRADUATE PRINTMAKING II** 3 sh
Continuation of G 4921 552. Taken serially.
- G 4921 628 GRADUATE PRINTMAKING III** 3 sh
Continuation of G 4921 553. Taken serially.
- G 4921 629 GRADUATE PRINTMAKING IV** 3 sh
Continuation of G 4921 628. Taken serially.



FRENCH

Chairperson: Dr. Helene Klibbe

Graduate Advisor: Professor Madeleine Sergent

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools, and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

ADMISSION REQUIREMENTS

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard College requirements for admission to graduate study.

After acceptance, the candidates will consult the Graduate Advisor to plan their programs. The course program must be approved by the Graduate Advisor each semester before registration.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FRENCH

- I. Required Courses 6 sh
 - 1102 505 History of the French Language 3 sh
or
 - 1102 509 Advanced Stylistics 3 sh
 - 1102 603 Research Seminar 3 sh
(Waived if student elects to write a thesis)One course in the literature of *each* century to be selected from the following French electives:
- II. French Electives
 - 1102 506 Advanced French Phonetics 3 sh

1102 508	Explication de Texte and Stylistic Analysis	3 sh
1102 511	Medieval French Literature	3 sh
1102 513	Medieval French Theater	3 sh
1102 516	French Humanism in the Sixteenth Century	3 sh
1102 517	Poetry of the Renaissance	3 sh
1102 525	Moralists of the Seventeenth Century	
1102 526	Corneille, Racine and Moliere	3 sh
1102 527	Selected Topics in Seventeenth Century French Literature	3 sh
1102 530	Philosophy and Politics in Eighteenth Century France	3 sh
1102 531	The Development of the Novel in Eighteenth Century France	3 sh
1102 532	Eighteenth Century Seminar	3 sh
1102 537	Nineteenth Century French Theater	3 sh
1102 538	French Novel of the Nineteenth Century I	3 sh
1102 539	French Novel of the Nineteenth Century II	3 sh
1102 540	Nineteenth Century French Poetry	3 sh
1102 542	Twentieth Century French Theater	3 sh
1102 543	Twentieth Century French Poets	3 sh
1102 544	Twentieth Century French Novel I	3 sh
1102 545	Twentieth Century French Novel II	3 sh
1102 546	Current Directions in the French Novel	3 sh
1102 547	Francophone Literature	
1102 548	Contemporary French Civilization: Selected topics	3 sh

These courses will be offered on a rotating schedule to enable students to fulfill the requirements for a Master's degree within two years, summer sessions included.

- III. Free Electives 6 sh
- IV. Thesis (Optional) 4 sh
- V. Comprehensive Examination: Two sessions
 - a) A 2-hour written exam covering stylistics, explication de texte and French civilization.
 - b) A 3-hour written examination on topics selected from a previously announced list of subjects covering the literature of four centuries. The exam is based on a reading list and course content.

Minimum: 33 semester hours

FRENCH

Course Descriptions

- 0 1102 505 HISTORY OF THE FRENCH LANGUAGE 3 sh**
Structures of modern French as outcome of linguistic and culture processes over 2,000 years.
- 0 1102 506 ADVANCED FRENCH PHONETICS 3 sh**
Principles of general and experimental phonetics. Previous knowledge of phonetics desirable.
- 0 1102 508 EXPLICATION DE TEXTE AND STYLISTIC ANALYSIS 3 sh**
Techniques of "Explication De Texte and Stylistic Analysis" as an instrument for development of critical reading ability, and as a pedagogical tool for teaching literature as well as language through literature.
- 0 1102 509 ADVANCED STYLISTICS 3 sh**
Fundamental notions of structuralism as applied to contemporary literary criticism.
- 0 1102 511 MEDIEVAL FRENCH LITERATURE 3 sh**
French literature from ninth through fifteenth centuries emphasizing the "Chanson De Geste" and the "Roman Courtois."
- 0 1102 513 MEDIEVAL FRENCH THEATER 3 sh**
Origins and development of the theater in France during the middle ages.
- 0 1102 516 FRENCH HUMANISM IN 16TH CENTURY 3 sh**
Humanistic ideals as reflected in the works of Rabelais, Montaigne and other authors.
- 0 1102 517 POETRY OF THE RENAISSANCE 3 sh**
Major works of Marot, Ronsard, Du Bellay and other poets of the Pleiade.
- 0 1102 525 MORALISTS OF THE 17TH CENTURY 3 sh**
Representative works of Descartes, Pascal, La Rochefoucauld, Saint Simon, La Bruyere, and other authors.
- 0 1102 526 CORNEILLE, RACINE AND MOLIERE 3 sh**
Dramatic Art as reflected in representative plays of the three authors.
- 0 1102 527 SELECTED TOPICS IN 17TH CENTURY FRENCH LITERATURE 3 sh**
Changing topics to include in-depth studies of individual authors.
- 0 1102 530 PHILOSOPHY AND POLITICS IN 18TH CENTURY FRANCE 3 sh**
Impact of the Philosophes on religious, political and sociological thought.

- 0 1102 531 THE DEVELOPMENT OF THE NOVEL IN 18TH CENTURY FRANCE 3 sh**
Study of the social and historical context of a novel and its particular form (e.g. Epistolary, episodic, etc.)
- 0 1102 532 18TH CENTURY SEMINAR 3 sh**
Changing topics to include in-depth studies of individual authors and genre topics.
- 0 1102 537 19TH CENTURY FRENCH THEATER 3 sh**
Hugo's dramatic theories and their application in representative plays.
- 0 1102 538 FRENCH NOVEL OF 19TH CENTURY I 3 sh**
Insight into major works of Balzac and Stendhal.
- 0 1102 539 FRENCH NOVEL OF 19TH CENTURY II 3 sh**
Insight into major works of Flaubert and Zola.
- 0 1102 540 19TH CENTURY FRENCH POETRY 3 sh**
Development of French poetry from romanticism to symbolism.
- 0 1102 542 20TH CENTURY FRENCH THEATER 3 sh**
Major modern currents and trends in drama.
- 0 1102 543 20TH CENTURY FRENCH POETS 3 sh**
Within a general developmental context, emphasis upon thematics and structural analysis of work of Apollinaire, Reverdy, Char, Eluard and Bonnefoy.
- 0 1102 544 20TH CENTURY FRENCH NOVEL I 3 sh**
Evolution of the French novel: Proust, Gide, Mauriac and other authors.
- 0 1102 545 20TH CENTURY FRENCH NOVEL II 3 sh**
Evolution of the French novel: Malraux, Sartre, Camus and other authors.
- 0 1102 546 CURRENT DIRECTIONS IN FRENCH NOVEL 3 sh**
Analysis of current developments in the French novel and its criticism.
- 0 1102 547 FRANCOPHONE LITERATURE 3 sh**
Major Francophone writings outside continental France.
- 0 1102 548 CONTEMPORARY FRENCH CIVILIZATION— 3 sh**
SELECTED TOPICS
Study of institutions and culture of contemporary France.
- 0 1102 603 RESEARCH SEMINAR 3 sh**
Opportunity to apply research techniques on a specific topic of the student's choice.
- 0 1503 536 THE ROMANTIC MOVEMENT 3 sh**
Comparative approach to the study of romanticism in England, Germany, and France. (Taught in English. Recommended to French majors as a free elective.)

GEOSCIENCE

Chairperson: Professor Richard Hodson

Graduate Advisor: Dr. Charles L. Hamilton

The graduate programs in Geoscience are designed to enable the student to pursue further study in the various areas of the Department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training.

For the arts and science student, a graduate program is designed to give opportunity for in-depth study in the broad field of Geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in (1) metamorphic and igneous geology, (2) stratigraphy, paleobiology and sedimentology, or (3) oceanography and marine geology is possible. Some of the above courses will be taken at the various sites of the New Jersey Marine Science Consortium.

ADMISSION REQUIREMENTS

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specialization, as well as a sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin (Admission to Graduate Study). Each candidate's background and credentials must be approved by the graduate advisor for the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN GEOSCIENCE

Thirty-two semester hours are required, of which up to eight may be at the 400 level. Additional 400 level courses will not be given credit without written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for graduate courses in the area of professional education.

- | | | |
|----|---|---------|
| I. | Required Courses (one from each group) | 9-12 sh |
| A. | 1914 537 Biostratigraphy of New Jersey | 4 sh |
| | 1914 533 Advanced Invertebrate Paleobiology | 4 sh |

1914 512	Paleoecology	3 sh
B. 1914 503	Advanced Physical Geology	4 sh
1914 504	Advanced Historical Geology	3 sh
1914 571	Geophysics	3 sh
C. 1914 543	Advanced Mineralogy	3 sh
1914 546	Petrography	4 sh
1914 545	Optical Mineralogy	4 sh
II.	Geoscience Electives	10-13 sh
III.	Research	
1914 695	Thesis	4 sh
IV.	Free Electives	6 sh
V.	Comprehensive Examination	

Minimum: 32 semester hours

GEOSCIENCE

Course Descriptions

Z 0834 505 RESEARCH SEMINAR IN SCIENCE 2 sh

This course is designed to afford opportunity for graduate students in science, supervisors, and science teachers, to investigate research in science education, and to organize science experiences and science information with the teaching materials for the public schools. Each member of the group selects a project. This project must be presented to the science faculty and graduate students for evaluation.

Z 1914 503 ADVANCED PHYSICAL GEOLOGY 4 sh

In-depth study of the major problems of physical geology processes of erosion, rock formation, continent and ocean basin origin and relationships, earthquakes, interior of the earth, volcanism, island arcs, mountain building; paleomagnetism, continental drift, and sea-floor spreading. Field trips.

Prerequisites: A course in physical geology plus 8 hours of additional geoscience at 400 level.

Z 1914 504 ADVANCED HISTORICAL GEOLOGY 3 sh

In-depth analysis of major problems in geologic history, stratigraphy and paleoenvironments as interpreted through lithologic and paleontologic evidence. Required field trips.

Prerequisite: A course in stratigraphy.

Z 1914 525 ENVIRONMENTAL GEOSCIENCE 3 sh

In-depth study of the relationship between man and the physical environment of atmosphere, hydrosphere and lithosphere. Particular attention to problems of mineral resource and fossil-fuel depletion; pollution of air, water, and soils and waste disposal and recycling, simple computer modeling of environmental situations.

Prerequisite: Graduate standing in either Environmental Studies-Physical Geoscience or Permission of Instructor.

Z 1914 530 PALEOECOLOGY 3 sh

Distribution and association of fossils as interpreted from the evidence presented in the geologic record. Detailed paleoecological field study made of selected faunal assemblages.

Prerequisite: Course in invertebrate paleobiology.

Z 1914 533 ADVANCED INVERTEBRATE PALEOBIOLOGY 4 sh

Fossil invertebrates with emphasis on their evolutionary, paleoecologic and stratigraphic significance. Laboratory and field work stress collecting, preparation, identification, curatorial and faunal analysis techniques. Required field trips.

Prerequisite: Course in Invertebrate Paleobiology or undergraduate Biology major or Permission of Instructor.

Z 1914 535 VERTEBRATE PALEOBIOLOGY 3 sh

The geologic history, morphology, taxonomy, paleogeography and evolution of fossil vertebrates. Required field trips.

Prerequisites: T 1914 114; W 0401 131 or Permission of Instructor.

Z 1914 536 PALEOBOTANY 3 sh

The taxonomy, morphology, evolution, paleoecology and stratigraphic significance of fossil plants. Required field trips.

Prerequisites: Courses in historical geology and general botany or Permission of Instructor.

Z 1914 537 BIOSTRATIGRAPHY OF NEW JERSEY 3 sh

The geologic history, paleontology, stratigraphy and paleogeography of New Jersey. Required field trips.

Prerequisite: Z 1914 530 or Permission of Instructor.

Z 1914 538 SEDIMENTARY PETROGRAPHY 4 sh

The interpretative study of the structures, textures, composition and genesis of sedimentary rocks. Laboratory analyses of sediments and sedimentary rocks by optical, mechanical and chemical methods and the graphical representation of the resultant data.

Prerequisites: Course in stratigraphy and optical mineralogy.

Z 1914 543 ADVANCED MINERALOGY 3 sh

Chemical and physical principles as applied to minerals. Detailed study of representative minerals from the various families. Advanced techniques will be performed by the student. Field trips.

Prerequisites: Course in mineralogy.

Z 1914 545 OPTICAL MINERALOGY 4 sh

Theory and practice of using the polarizing microscope to study and identify minerals; theory of light transmission in minerals; the practical effect. Required field trips.

Prerequisites: Course in mineralogy.

Z 1914 546 PETROGRAPHY 4 sh

Rock textures, structures and mineralogy using the polarizing microscope. Identification and classification of rocks and the origin and history of the rock as determined by microscopic study of thin sections. Required field trips.

Prerequisites: Courses in petrology and optical mineralogy.

Z 1914 560 ADVANCED MARINE GEOLOGY 3 sh

Development and evolution of the ocean basins; marine sedimentation; shoreline development and classification; submarine topography; mineral resources of the sea. Laboratory analysis of marine sediments and fossil assemblages. Required field trips.

Prerequisites: Courses in physical geology and one 400 course in marine geology or oceanography.

Z 1914 571 GEOPHYSICS 3 sh

Theory and application of conventional geophysical methods: seismology, magnetism; electricity and gravity. Laboratory includes the collection and interpretation of geophysical data. Field trips.

Prerequisites: Courses in physical geology and college physics II and calculus A.

Z 1914 572 TECTONICS 3 sh

The study of the major structures of the earth, the principles of isostasy, mountain-building, continental drift, sea-floor spreading, and possible causes of tectonism in the earth. Discussion will include the methods of study, results obtained, interpretation of the data, and the latest theories of tectonism.

Prerequisites: Courses in physical geology and college physics II.

Z 1914 573 NUCLEAR GEOPHYSICS 3 sh

Principles and application of nuclear physics to study of earth, including: natural radiation, origin and occurrence of isotopes; use of isotopes in prospecting, geochronology and space geology; paleotemperature determinations; activation analysis; mining and use of radioactive elements; nuclear energy.

Prerequisites: Z 1914 503 or Z 1914 504; and college physics II.

Z 1914 575 GEOCHEMISTRY 3 sh

Chemical laws and principles applied to the earth, chemical composition of the earth, distribution and relative abundance of the elements. Radioactive materials, atmospheric precipitation of geochemicals, the geochemistry of polluted water (including solid and liquid wastes) study of meteorites. Required field trips.

Prerequisites: General chemistry, petrology.

Z 1914 578 IGNEOUS & METAMORPHIC GEOLOGY 4 sh

The interpretive study of igneous and metamorphic rocks in detail with the aim of properly identifying and naming the rocks and interpreting their history: rock suites from classical areas. Required field trips.

Prerequisites: Courses in petrology and optical mineralogy.

Z 1914 580 FIELD GEOLOGY 4 sh

The principles and techniques of geologic field work. Independent and team mapping of local areas of geologic interest using modern field methods and instruments.

Prerequisite: 12 hours of 400 level geoscience.

Z 1914 592 SPECIAL PROBLEMS IN GEOSCIENCE 1-4 sh

Independent research project to be performed by the student under faculty guidance.

Prerequisite: Matriculation for the M.A. degree in Geoscience or permission of Geoscience faculty.

Z 1914 628 SEMINAR IN ENVIRONMENTAL GRAPHICS 3 sh

The use of graphic materials suitable for analyzing, understanding and presenting aspects of the environment through seminar presentation. The preparation of illustrative materials, especially suitable for inclusion in environmental impact statements as well as for public presentation, will be developed by each student as a culminating research project.

Prerequisites: At least 12 hours of graduate credits in environmental science or with Permission of the Instructor.

Z 1914 695 THESIS 4 sh

In-depth field, laboratory and library investigation of a problem in the area of the student's interest in geoscience; results will be presented in oral and written form culminating in a written thesis.

Prerequisite: Matriculation for the M.A. degree in Geoscience.

Offered at the New Jersey Marine Sciences Consortium

Z 1999 564 BENTHIC ECOLOGY 4 sh

Community structure, trophic dynamics species diversity and distribution of bottom dwelling organisms in relationship to their environment. Lectures, lab work, field investigation of marine benthos. Offered at New Jersey Marine Sciences Consortium.

Prerequisites: Degree in biology; 1 year of chemistry, general botany, and invertebrate zoology or Instructors Permission.

Z 1999 565 TIDAL MARSH ECOLOGY 4 sh

Salt marsh development and physiography community structure, energetics, and interrelationships. The role of salt marshes in estuarine and marine systems. The impact of man on the marsh. Offered at New Jersey Marine Sciences Consortium.

Prerequisites: Degree in biology including some course work in marine biology, and degree in biology.

Z 1999 566 ECOLOGY OF THE ESTUARY**4 sh**

Emphasis is placed upon the important biotic, chemical and physical parameters of New Jersey estuaries. An underlying theme is the evolution and successional trends of estuarine communities. Ecology of individual communities is studied by field trips to Delaware Bay shore and to some Atlantic Coast bays, marshes and off-shore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisites: 1 year of chemistry; W 0401 130, Instructors Permission; W 040 121.

Z 1999 581 COASTAL GEOMORPHOLOGY**4 sh**

Coastlines and their evolution; processes and materials of the coastal zone; shore zone hydrodynamics and sedimentation; beach and barrier systems with special emphasis on the New Jersey shoreline. Offered at the site of the New Jersey Marine Consortium.

Prerequisites: 12 hours of geoscience including geomorphology or Permission of Instructor.

Z 1999 598 SPECIAL PROBLEMS IN THE MARINE SCIENCES**1-4 sh**

An opportunity for the qualified graduate student to do research in a field of marine science selected under the guidance of a professor. Open only to graduate students who have indicated a potential for original thinking. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Graduate standing in natural or social science and Permission of the Departmental Graduate Advisor.

HEALTH PROFESSIONS

Chairperson and Graduate Advisor: Dr. Harry H. Hoitsma

The graduate program leads to a Master of Arts degree in Health Education. It provides advanced study for candidates engaged in or seeking added preparation for positions in the Health Education field. A broad variety of educational experiences are available in an effort to prepare health educators for their continually expanding involvement in schools, colleges, community agencies, business and industry. Essential aspects of the program include required as well as selected elective courses in the Department of Health Professions, inter-disciplinary coursework, a comprehensive written examination, a research experience culminating in an oral examination and the completion of a major document. Develop-

ment of a historical perspective is provided along with an emphasis on specific contemporary health problems. The implications of advancements in the health sciences combine with a recognition of recent developments in Health Education to complete the foundational basis of this program.

ADMISSION REQUIREMENTS

All candidates must meet the admission requirements for graduate study at Montclair State College, including the completion of a major in Health Education from an accredited college or university which constitutes the basic requirement for admission. Candidates with degrees in closely related areas may be considered, although prematriculation course work may be required. Applicants with a minor or less preparation in Health Education must complete designated course work prior to matriculation. Students with a major in Health Education may also be required to undertake additional work where academic deficiencies are apparent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HEALTH EDUCATION

- I. Required Courses 15 sh
 - 0837 526 Curriculum Development in Health Education ... 3 sh
 - 0837 528 Evaluation in Health 3 sh
 - 0837 535 History and Foundations of Health I OR
 - 0837 536 History and Foundations of Health II 3 sh
 - 0837 503 Research Methods in Health 3 sh
 - 0837 603 Research Project in Health 3 sh
- II. Selected Health Education Electives 9 sh

The selection of Health Education electives will be determined through advisement and will be based on the professional objectives of the candidate.

 - 0837 530 Seminar on Basic Issues in Health 3 sh

(This course is recommended but not required prior to the comprehensive written examination.)
- III. Free Electives 8 sh
- IV. Comprehensive Examination

All candidates must satisfactorily complete the following courses before registering for the examination:

 - 0837 528 Evaluation in Health 3 sh
 - 0837 503 Research Methods in Health 3 sh

And

One of the following three courses:

 - 0837 526 Curriculum Development in Health Education ... 3 sh
 - 0837 535 History and Foundations of Health I 3 sh
 - 0837 536 History and Foundations of Health II 3 sh

The examination is composed of five items: one each in research, evaluation, history, curriculum and health issues. The candidate must satisfactorily answer three items; however, students who pass

both the research item and the evaluation item will be eligible to register for course 0837 603, Research Project in Health. A failed item must be retaken. There are no exceptions to this requirement. Applications are available in the department office and must be submitted at least three weeks prior to the examinations scheduled in January and June.

V. Oral Examination

An oral examination administered by a committee of three graduate faculty members, including your Research Advisor, is required of all candidates and is conducted in conjunction with course 0837 603 Research Project in Health, and completion of the research document.

Note:

1. No more than two of the following 400-level courses may be taken for credit to be applied to the Master's degree:

0837 411, The School Health Program	3 sh
0837 445, Perspectives on Death	3 sh
0837 460, Systems of Health Care Delivery	3 sh
2. The department provides opportunity for membership in Rho Chapter of Eta Sigma Gamma, a national health science honorary society.

HEALTH PROFESSIONS

Course Descriptions

5 0836 501 SELECTED DEVELOPMENTS IN SAFETY 3 sh

Provides selected aspects of school and community safety, including treatment of industrial, occupational, home, traffic and pedestrian topics. Stresses development of a safer environment.

Prerequisite: A basic course in safety or Permission of Instructor.

5 0837 500 HEALTH ASPECTS OF FAMILY LIVING 2 sh

The family in contemporary society and alternatives to the traditional family, including health aspects of reproduction, heredity, growth and development.

Prerequisite: Courses in similar field.

5 0837 502 DETERMINANTS OF ENVIRONMENTAL HEALTH 3 sh

Advanced study of health and safety aspects of the environment: air, water, industrial pollution and the impact of expanding population on health problems.

Prerequisite: Courses in similar field or Permission of Instructor.

- 5 0837 503 RESEARCH METHODS IN HEALTH 3 sh**
 Theoretical and practical experiences in methods of inquiry, designing of research studies, utilization of various tools for gathering data, statistical analysis of data, and writing of research proposals.
 Prerequisite: 5 0837 528
- 5 0837 505 SCHOOL HEALTH PROGRAM MANAGEMENT 3 sh**
 Examines the various aspects of management theory pertinent to school health programs. Guiding principles and philosophical consideration of theory and practice are also reviewed. Includes management techniques, staffing patterns and accounting procedures essential for the successful school health program. Evaluative devices are analyzed and reviewed to determine the effectiveness of the total program.
 Prerequisite: Majors only.
- 5 0837 510 HEALTH EDUCATION WORKSHOP I 1 sh**
 For teachers of Health Education; deeper understandings of subject matters, current methods and techniques for the classroom, and considerations for curriculum development.
- 5 0837 512 ALCOHOL EDUCATION WORKSHOP 3 sh**
 Current teaching materials, techniques and approaches in the alcohol education programs in schools and communities: physiological, psychological, sociological, legal, economic, religious, safety, and rehabilitative aspects.
 Prerequisite: Course in addictions and dependencies or the drug abuse problem or Permission of Instructor.
- 5 0837 513 DRUG ABUSE SEMINAR 3 sh**
 Advanced study in selected aspects of drugs: recent pharmacological, legal, economic and rehabilitative developments. Emphasizes individual project approach.
 Prerequisite: Course in addictions and dependencies or the drug abuse problem or Permission of Instructor.
- 5 0837 514 VENEREAL DISEASE EDUCATION 3 sh**
 Workshop emphasizing pathology, epidemiology, treatment and prevention of venereal disease. Includes consideration of school and community program development.
 Prerequisite: Courses in similar field or Permission of Instructor.
- 5 0837 516 SELECTED DEVELOPMENTS IN COMMUNITY HEALTH 3 sh**
 Advanced study of aspects of community health: recent developments in air and water pollution, waste disposal and sanitation, and communicable disease protection.
 Prerequisite: Courses in similar field or Permission of Instructor.

5 0837 526 CURRICULUM DEVELOPMENT IN HEALTH EDUCATION 3 sh

Nature and construction of comprehensive Health Education curricula, elementary grades through senior high school. Recommended for Health Education majors only.

Prerequisites: Basic course in health education and basic course in methods of teaching health education.

5 0837 528 EVALUATION AND HEALTH 3 sh

Measurement and evaluation processes relating to health in schools and communities; examination and development of research instruments to evaluate behavior, knowledge and attitudes; interpretative and administrative factors involved in the evaluation process.

Prerequisite: A basic course in statistics or in tests and measurement.

5 0837 530 SEMINAR IN BASIC ISSUES—HEALTH 3 sh

Contemporary health topics and problems are identified, interpreted and critically analyzed for development of deeper insights and understanding of the basic issues; individual or group research project.

5 0837 531 INDEPENDENT STUDY IN HEALTH 1 sh

Under the direction of departmental faculty member, semester hours determined by Department Chairperson following consultation with Departmental research committee. For students in Health Professions only.

5 0837 532 AIR POLLUTION 3 sh

A consideration of the diverse factors contributing to air pollution, the physiological responses of critical organs to air pollutants, public health and economic implication, air pollution control standards and legislation, and principles of monitoring devices.

Prerequisites: Year courses in college chemistry, and mammalian anatomy and physiology.

5 0837 535 HISTORY & FOUNDATIONS—HEALTH I 3 sh

Comprehensive historical study of our continual struggle against the forces of disease and infirmity. Includes health and medical practices of primitive peoples, ancient civilizations, the Middle Ages, and the Renaissance.

5 0837 536 HISTORY & FOUNDATION—HEALTH II 3 sh

Comprehensive historical study of health and medical practices beginning with the seventeenth century and extending through the twentieth century. Major health science discoveries are identified and the development of school health education is considered.

5 0837 603 RESEARCH PROJECT IN HEALTH 1 sh

Provides an intensive research experience for Master's degree candidates in Health Education. It reflects the culmination of coursework and involves the completion of a research document. All candidates must satisfactorily complete an oral examination based on the research experience.

Prerequisites: Successful completion of the Departmental Written Comprehensive Examination; 5 0837 528; 5 0837 503.

HOME ECONOMICS

Chairperson and Graduate Advisor: Dr. Katharine B. Hall

The graduate program in Home Economics offers three professional emphases: Home Management/Consumer Economics, Family Relations/Child Development, and Home Economics Education.

The program is designed to provide students with advanced study needed for college and university teaching, for leadership positions in various professions in business, for social welfare agencies, for public school and adult education programs, for research, and for extension service.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. An individual program of study is developed for each student depending on professional goals and educational background.

Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisite to graduate study. Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the undergraduate or graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HOME ECONOMICS

- I. Required Courses 12-13 sh
- | | | |
|----------|---------------------------------------|-----------|
| 1301 507 | Research in Home Economics | 3 sh |
| 1301 509 | Research Seminar or 1301 600 Thesis | 3 or 4 sh |
| 1301 540 | Interdisciplinary Study of the Family | 3 sh |
| 1301 590 | Contemporary Issues in Home Economics | 3 sh |
- II. Professional Emphasis 9 sh
- Select from one of the following groups:
- A. Consumer Studies—Home Management—Consumer Economics
- | | | |
|----------|-------------------------------|------|
| 1301 530 | Consumer Behavior | 3 sh |
| 1301 531 | Family Financial Problems | 3 sh |
| 1301 532 | Family and Consumer Economics | 3 sh |
| 1301 535 | Consumer and Family Law | 3 sh |
| 1301 560 | Housing the Family | 3 sh |

1301 570	The Management of Family Resources	3 sh
1301 571	Problem-Solving in Family Counseling	3 sh
1301 572	Management Seminar	3 sh
1308 403	Consumer Education Techniques	3 sh

B. Family Relations—Child Development

1301 503	Program Development in Family Life Education	3 sh
1301 514	The Child in the Family	3 sh
1301 542	Dynamics of Family Interaction	3 sh
1301 544	Intercultural Study of the Family	3 sh
1305 445	The Inner City Family	3 sh

C. Home Economics Education

1301 501	Seminar in Home Economics Education	3 sh
1301 503	Program Development in Family Life Education	3 sh
1301 506	Supervision of Home Economics	3 sh
1308 403	Consumer Education Techniques	3 sh

III. Home Economics Electives

To be selected from approved Home Economics courses.

IV. Electives Outside the Department

V. Comprehensive Examination, both oral and written to be taken after completing 24 semester hours of graduate study. Students must apply to the Graduate Advisor at the beginning of the semester in which the exams will be taken. The comprehensive examination is given each Fall and Spring semester.

VI. Candidates who choose to write a thesis will register for 1301 600 for four semester hours credit in lieu of 1301 509 Research Seminar. The comprehensive exam is waived. A thesis defense is required upon the completion of the thesis before the candidate's graduate Thesis Committee.

Minimum: 32 semester hours



HOME ECONOMICS

Course Descriptions

6 1301 501 SEMINAR HOME ECONOMICS EDUCATION 3 sh

Identification of the issues in Home Economics Education at all levels. Trends are analyzed as a basis for managing change in curriculum and instruction. Each participant will design a project and plans for implementation.

6 1301 503 PROGRAM DEVELOPMENT IN FAMILY LIFE EDUCATION 3 sh

Analysis of the development of family living programs in public schools and other agencies. Current problems, practices, and trends. Designing and planning for the implementation of innovative programs.

6 1301 506 SUPERVISION OF HOME ECONOMICS 3 sh

Curricula, current trends, facilities, professional literature and evaluation techniques. Competencies for the role of supervisor analyzed. Provides elective credits toward supervisor's certificate.

Prerequisite: Classroom teaching experience.

6 1301 507 RESEARCH IN HOME ECONOMICS 3 sh

Designed to provide basic research and statistical literacy so that students can develop a research proposal in its entirety in any one area of home economics.

Prerequisite: X 1301 304 or equivalent.

6 1301 508 INDEPENDENT STUDY 1 sh

An opportunity to study, in depth, areas of Home Economics which are not offered in the regular curriculum. Approval of Graduate Advisor required.

6 1301 509 RESEARCH SEMINAR 3 sh

Carrying out a research study on specific problems of limited scope. Work may be taken in the following areas: child and family, family and consumer studies, family housing, foods, nutrition, textiles, clothing or home management.

Prerequisite: X 1301 507.

6 1301 514 CHILD IN THE FAMILY 3 sh

An intensive study of the theories and research related to child rearing techniques; analysis of factors influencing parental practices and their effects on the child.

6 1301 520 CLOTHING AND HUMAN BEHAVIOR 3 sh

Analysis of factors affecting appearance and satisfaction in clothing. Economic, sociological and psychological aspects of clothing in relation to the individual.

- 6 1301 530 CONSUMER BEHAVIOR 3 sh**
Investigating consumer behavior from the perspective of the consumer. Emphasis on individual perception, motivation, learning, and personality, as well as family organization, social class, subcultures and national economic trends.
- 6 1301 531 FAMILY FINANCIAL PROBLEMS 3 sh**
Study of families with financial concerns and crises. Emphasis on effective use of money to meet families' life styles and alleviate problem areas.
- 6 1301 532 FAMILY AND CONSUMER ECONOMICS 3 sh**
Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.
- 6 1301 535 CONSUMER AND FAMILY LAW 3 sh**
Laws and policies of institutions which affect family functions, relationships, and welfare.
- 6 1301 540 INTERDISCIPLINARY STUDY OF FAMILY 3 sh**
Contributions which various academic disciplines (history, anthropology, biology, economics, psychology, and sociology) make towards a more comprehensive understanding of family life.
- 6 1301 542 DYNAMICS OF FAMILY INTERACTION 3 sh**
Critical review of concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.
- 6 1301 544 INTERCULTURAL STUDY OF FAMILY 3 sh**
Analytical study of cross-cultural regularities and differentials in family structures. Functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of the family as well as a broad acquaintance with empirical studies and research.
- 6 1301 560 HOUSING THE FAMILY 3 sh**
Analysis of location, structure, design, furnishings and equipment as a setting for the physical and emotional development of the individual and the family.
- 6 1301 570 MANAGEMENT OF FAMILY RESOURCES 3 sh**
The family as a decision-making unit, directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential and utilization.
- 6 1301 572 MANAGEMENT SEMINAR 3 sh**
Application of personal management concepts to one's professional role with the goal of developing more effective ways of handling professional situations and responsibilities.
- 6 1301 580 NEW FINDINGS IN NUTRITION 3 sh**
Recent developments in nutrition and a critical review of fundamentals.

6 1301 590 CONTEMPORARY ISSUES-HOME ECONOMICS 3 sh

A seminar dealing with issues in Home Economics, with special emphasis on designing programs for social change.

Prerequisites: Matriculation and 20 sh in graduate program.

6 1301 600 THESIS IN HOME ECONOMICS 4 sh

Individual research selected under advisement of a faculty committee. An oral exam by the committee follows the completion of the project. Required for registration: written permission from major faculty advisor of the research, and Department chairperson.

Prerequisite: 6 1301 507 Instructor's Permission.

INDUSTRIAL STUDIES

Chairperson and Graduate Advisor: Dr. George Olsen

The graduate program in Industrial Education and Technology is designed to improve the professional training of Industrial Education teachers, to enhance their teaching proficiency through study of trends and developments in the field, to improve the organization of the industrial arts laboratory and to provide a basis for work in administration and supervision. Emphasis is given to advanced work in Industrial Education and related fields which broaden professional experiences and accent industrial concepts.

Graduate programs of students matriculated in the department are tailored to the individual's needs through consultation with the Graduate Advisor. Students must meet the departmental requirements for either a thesis program (Option A) or a non-thesis program with a comprehensive examination (Option B).

Graduate students matriculated in the Master of Arts degree program who desire certification as a Supervisor of Industrial Education or as a Coordinator of Cooperative Industrial Education can arrange their programs with the Graduate Advisor.

ADMISSION REQUIREMENTS

Study toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in the same area. Individuals who have undergraduate majors in this area, but do

not wish to work toward a degree, may enroll in graduate courses in the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION A)

- I. Required Courses
- A. General 6 sh
- 0824 503 Methods of Research 3 sh
- Education Elective 3 sh
- B. Industrial Education Specialization 12 sh
1. Required
- 0996 502 Curriculum Construction and Course 3 sh
- Organization in Industrial Education
- 0996 509 Industrial Education Facilities
- Planning 3 sh
- 0996 607 Research Seminar in Industrial Education
- (Full Year) 6 sh
2. Electives 6 sh
- Six semester hours approved by Departmental Advisor to be selected from: 0996 501, 503, 504, 505, 606.
- II. Free Electives 4 sh
- Selected from among any 500 or 600 level course for which the student meets any departmental prerequisites or restrictions. Senior-graduate (400 level) courses must be approved by the Graduate Advisor, when the official work program is developed.
- III. Thesis 4 sh
- Each candidate for this program will select a thesis topic, thesis advisor, two thesis committee members (one within the department, one from outside the department) and register according to department and College policy. An oral examination based on the completed thesis is part of the thesis requirement.

Minimum: 32 semester hours

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION B)

- I. Required Courses
- A. General 6 sh
- 0824 503 Methods of Research 3 sh
- Education Elective 3 sh

- B. Industrial Education Specialization 12 sh
1. Required
 - 0996 502 Curriculum Construction and Course 3 sh
Organization in Industrial Education
 - 0996 509 Industrial Education Facilities
Planning 3 sh
 - 0996 607 Research Seminar in Industrial Education
(Full Year) 6 sh
 2. Electives 12 sh
Twelve semester hours approved by Departmental Advisor
to be selected from: 0996 501, 503, 504, 505, 606.
- II. Free Electives 4 sh
Selected from among any 500 or 600 level course for which the
student meets any departmental prerequisites or restrictions. Sen-
ior-graduate (400 level) courses must be approved by the Graduate
Advisor, when the official work program is developed.
- III. Comprehensive Examination
A written comprehensive examination, scheduled twice each year
during the Fall and Spring semester, is required of all candidates for
the Master of Arts Degree within this program option.

Minimum: 36 semester hours

Certification

The department offers three forms of certification:

1. Supervisor
2. Cooperative Industrial Education Coordinator
3. Post-Baccalaureate
 - (a) initial field
 - (b) additional field

For more details, see certification section of this catalog or contact the
Department Graduate Advisor.

INDUSTRIAL EDUCATION AND TECHNOLOGY

Course Descriptions

- 7 0996 501 HISTORICAL AND CONTEMPORARY 3 sh
INDUSTRIAL STUDIES LITERATURE

Material surveyed for applicability to laboratory teaching and professional
improvement: historical writing, research literature, materials provided by
corporations and government agencies and pertinent reference works.

7 0096 502 CURRICULUM CONSTRUCTION AND COURSE ORGANIZATION IN INDUSTRIAL STUDIES 3 sh

Development of Industrial Education courses of study and instructional materials.

7 0096 503 CONTEMPORARY PROBLEMS IN INDUSTRIAL STUDIES 3 sh

Seminar group exploration of a current problem or issue in contemporary Industrial Education; in a research, discussion, presentation format.

7 0096 504 INSTRUCTIONAL MATERIALS IN INDUSTRIAL STUDIES 3 sh

The research, creation, development, and application of innovative Industrial Education methodology and instructional materials.

Prerequisite: 4 0840 400.

7 0096 505 SUPERVISION OF INDUSTRIAL STUDIES 3 sh

Principles and practices discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.

7 0096 509 INDUSTRIAL STUDIES FACILITIES PLANNING 3 sh

Planning and equipment selection; practical application of architectural aspects, floor plan layouts, equipment selection, bid preparation and two- or three-dimensional models.

7 0096 606 INDEPENDENT STUDY—INDUSTRIAL STUDIES I 1-3 sh

Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved industrial course or seminar related to the student's special area of interest. May be taken three times with the Graduate Advisor's approval, for a total of three semester hours.

Prerequisite: 4 0824 503.

7 0096 607 RESEARCH SEMINAR IN INDUSTRIAL STUDIES 6 sh

A survey of industrial research, technical reports, centers, institutes, laboratories and material standards. The undertaking of an industrial research and development problem, reflecting the graduate student's area of concentration, and the preparation of a publishable technical report. To run a full academic year from September to June.

Prerequisite: 4 0824 503.

7 0097 501 PRINCIPLES AND PHILOSOPHY OF COOPERATIVE INDUSTRIAL STUDIES 3 sh

Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative Industrial Education programs.

**7 0997 502 CURRICULUM CONSTRUCTION IN
COOPERATIVE INDUSTRIAL STUDIES**

3 sh

Techniques designed to meet needs of related and laboratory teaching, and school work programs; curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

**7 0997 503 PROBLEMS IN ORGANIZING AND TEACHING
COOPERATIVE INDUSTRIAL EDUCATION
PROGRAMS**

3 sh

Various practices for coordinating high school programs with needs of local industry. Emphasis on supervisory responsibilities within the school and cooperation required with public and private agencies.



LINGUISTICS

Students seeking second certification in Teaching English as a Second Language may offer the courses listed below to satisfy state requirements. Students in other programs may elect Linguistics courses with their advisor's prior approval.

LINGUISTICS

Course Descriptions

Q 1505 510 INTENSIVE LINGUISTICS FOR TEACHERS 3 sh

Intensive study of the technical concepts of linguistics that are necessary for teaching basic classroom skills (English, reading, writing, foreign languages) and for understanding how children use language in the classroom (language development, social dialects, speech events).

Q 1505 515 ADVANCED STRUCTURE OF AMERICAN ENGLISH 3 sh

Detailed analysis of the phonological and grammatical structures of American English; advanced study of the social and stylistic varieties of American English; various theories of English grammar.

Prerequisite: Introduction to General Linguistics or equivalent.

Q 1505 525 SOCIOLINGUISTICS IN EDUCATION 3 sh

Study of language in its social context. Topics include: language and ethnicity, language and social class, standard vs. nonstandard varieties of language, code-switching, pidginization and creolization, attitudes towards non-standard varieties of language.

Q 1505 540 LANGUAGE AND CULTURE IN MINORITY EDUCATION 3 sh

Intended to develop an awareness in the student of the intimate connection between language, culture, and ethnic pride and identity. Study of the communication problems of bilingual children due to differences in the verbal and non-verbal patterns of communication, survey of the various instructional methods and models employed in teaching children from different linguistic and cultural backgrounds, and study of the correlation between language and socio-economic class.

Basic concepts of testing; reliability, validity, correlation; statistical concepts; correlation coefficient, standard deviation; item analysis; testing individual skills, including listening and reading comprehension, oral writing proficiency, and testing cultural awareness; measuring language dominance in bilingualism.

MATHEMATICS AND COMPUTER SCIENCE

Chairperson: Dr. Kenneth C. Wolff

Graduate Advisor: Dr. Helen M. Roberts

The Department of Mathematics and Computer Science offers two Master's Degrees, a Master of Arts Degree in Mathematics with four different concentrations and a Master of Arts Degree in Computer Science.

MASTER OF ARTS DEGREE IN MATHEMATICS

The Department offers a Master of Arts Degree in Mathematics with four different areas of concentration: Pure and Applied Mathematics, Statistics, Computer Science and Mathematics Education. The Master's Degree in Mathematics with a Computer Science Concentration differs from the Master's Degree in Computer Science. The program in Pure and Applied Mathematics, Statistics, and Computer Science provides students with the advanced courses needed for teaching at the high school level, and for positions of leadership in business, industry and government. The program in Mathematics Education will upgrade the skills of teachers and offers a special combination of courses in Mathematics and Mathematics Education.

A cooperative doctoral program between Montclair State College and Teachers' College/Columbia University is available to qualified students in the Mathematics Education program. Further information on this program is available from the Chairperson.

ADMISSION REQUIREMENTS

A candidate for the Master of Arts Degree in Mathematics must consult the Graduate Advisor of the Department of Mathematics and Computer Science before matriculation since the choice of graduate courses should be

adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of 33 semester hours of course work, is prepared in consultation with the Graduate Advisor. Up to 6 semester hours can be taken at the 400 level.

The candidate for the Master of Arts Degree in Mathematics must present an undergraduate major of at least 30 semester hours in mathematics. Courses in a related area that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit. All students must meet the admission requirements for graduate study at Montclair State College.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MATHEMATICS

PURE AND APPLIED CONCENTRATION

- I. Required 12 sh
 - One 1-year sequence of courses in analysis, chosen from:
1701 521, 522 or 525, 526
and
One 1-year sequence of courses in algebra, chosen from:
1701 531, 532 or 535, 536
- II. Mathematics Electives 15 sh
 - Courses selected from: 1701 520 to 569
 0701 580 to 594
 1701 420 to 469
 - Students must take 425 and 426 if not previously taken.
- III. Free Electives 6 sh
- IV. A Comprehensive Examination in Algebra and Analysis must be taken.

STATISTICS CONCENTRATION

- I. Required 12 sh
 - 1701 541, 543, 548 are required of all students.
 - One additional course must be chosen from 1701 540 to 549.
- II. Mathematics Electives 15 sh
 - Courses selected from: 1701 520 to 569
 0701 580 to 594
 1701 420 to 469
 - At least 12 sh must be at the 500 level. Students must take 425 and 426 and either 440 or 443, and a Computer Science course, if they have not previously taken equivalent courses.
- III. Free Electives 6 sh
- IV. A Comprehensive Examination in Statistics and in Algebra, or Analysis, or Computer Science must be taken.

COMPUTER SCIENCE CONCENTRATION

- I. Required 12 sh
Students are required to select three courses from 0701 580, 581, 583, 586 and an additional course from 0701 580 to 594 or 1701 560.
- II. Mathematics Electives 15 sh
Courses selected from: 1701 520 to 569
1701 420 to 469
At least 12 semester hours must be at the 500 level. Students must take 425 and 426 and either 431 or 436, and either 440 or 443, if they have not previously taken equivalent courses.
- III. Free Electives 6 sh
- IV. A Comprehensive Examination in Computer Science and Algebra or Analysis or Statistics must be taken.

MATHEMATICS EDUCATION CONCENTRATION

- I. Required 12 sh
Courses selected from: 1701 510, 511, 570 to 579
- II. Mathematics Electives 15 sh
Courses selected from:
 - Algebra: 1701 431, 531, 532, 535, 536
 - Analysis: 1701 420, 425, 426, 521, 522, 525, 526
 - Statistics: 1701 440, 443, 540 to 549
 - Geometry: 1701 450, 551, 554, 555
 - Computer Science: 0701 580 to 594, 1701 560At least 9 sh must be at the 500 level. Students must take courses from at least 3 of the above 5 areas. Students must take 425 and 431, if they have not previously taken equivalent courses.
- III. Free Electives 6 sh
- IV. A Comprehensive Examination in Mathematics Education and in Algebra, or Analysis, or Computer Science, or Statistics must be taken.
Note: For Teacher Certification, additional courses may be required.

MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

The Department offers a Master of Arts Degree in Computer Science. The Department also offers a Computer Science Concentration as part of its Master of Arts Degree in Mathematics.

The degree provides students with advanced courses needed to achieve leadership positions in business, industry and government in the field of Computer Science or in related fields where Computer Science expertise has become essential.

ADMISSION REQUIREMENTS

1. Applicants must possess a bachelors degree from an accredited institution with either:
 - a. a major in Computer Science or Mathematics
 - b. a major in natural science or engineering
 - c. another major with an overall cumulative grade-point average of 3.0 (B) or other indications of the ability to complete the program
2. Applicants must have taken at least 15 undergraduate credits in Mathematics including calculus, linear algebra and discrete mathematics. Deficiencies in mathematics can be rectified by taking 1701 501, 502 or 503 which are accelerated Mathematics courses. When required, these will be "prerequisite courses" on the graduate work program. The sequence will require one year to complete. (Fall, Spring, Summer)
3. Applicants must be proficient in the following computer programming languages:
 - a. Cobol
 - b. Fortran or PL/I or Pascal
 - c. Assembly Language

A one-semester course in these languages or one year's programming experience in industry will suffice for this requirement. Deficiencies in Computer Science can be rectified by taking 0701 505, 506 or 507, which are accelerated Computer Science courses. When required, these will be prerequisite courses on the graduate work program. The sequence will require one year to complete. (Fall, Spring, Summer)

Applicants satisfying admission requirements but needing to make up work in the fundamentals of Mathematics and Computer Science (1701 501, 502, 503 and 0701 505, 506, 507) are granted deferred matriculation. Upon completion of the necessary courses with a minimum grade point average of 3.0, students will be granted full matriculation. Students needing work in one or two areas and satisfying all other requirements may be granted a full matriculation and be asked to make up appropriate courses in the form of prerequisite courses.

All students must meet the admission requirements for graduate study at Montclair State College.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

- I. Required 21 sh
Courses selected from: 0701 580 to 594 or 1701 560,
0701 580, 581, 583 and 586 are required of all students.

- II. Mathematics, Computer Science Electives 6 sh
 Courses selected from: 1701 520 to 569
 0701 580 to 594
 1701 420 to 469
- III. Free Electives 6 sh
- IV. A Comprehensive Examination in Computer Science must be taken.
Note: Courses 501, 502, 503, 505, 506 and 507 are not to be counted among the 33 semester hours required for completion of the program.

MATHEMATICS AND COMPUTER SCIENCE

Course Descriptions

COMPUTER SCIENCE

Y 0701 505 FUNDAMENTALS OF COMPUTER SCIENCE I 4 sh

An introduction to programming using Cobol, the design of algorithms, string manipulation, introduction to data structures, and files manipulation. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Permission of the Graduate Advisor.

Y 0701 506 FUNDAMENTALS OF COMPUTER SCIENCE II 4 sh

A continuation of 0701 505. Introduction to numerical computing using PL/I. Syntax and semantics of a programming language. Algorithms: logic, design, testing and documentation. Algorithm development involving user functions, subroutines, recursion, structures, file manipulation. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Y 0701 505, or permission of the Graduate Advisor.

Y 0701 507 FUNDAMENTALS OF COMPUTER SCIENCE III 4 sh

A continuation of 0701 505 and 506. Introduction to Assembler, addressing techniques, subroutines, linkages, input/output and macros. Introduction to computer organization including memory, logic design and computer architecture. May not be used for credit by Mathematics or Computer Science Majors.

Prerequisite: Y 0701 506, or Permission of the Graduate Advisor.

Y 0701 580 ADVANCED PROGRAMMING 3 sh

Assembler language programming including digital representation of data, subroutine linkage, macro definition and generation, and input/output routines. Additional programming techniques including documentation, structured programming, address modification and indexing, string ma-

nipulation, and some of the more sophisticated features of the operating system and job control language.

Prerequisite: Y 0701 507.

Y 0701 581 SYSTEMS PROGRAMMING 3 sh

Assembler languages, macros, subroutines, data structures, vectors and arrays, tables, hash coding, stacks, lists, data base system.

Prerequisite: Y 0701 580.

Y 0701 582 THEORY OF AUTOMATA AND FORMAL LANGUAGES 3 sh

Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, turing machines, computability, deterministic languages, linear bounded automata and stack automata.

Prerequisites: Y 0701 507, Y 1701 503.

Y 0701 583 COMPUTER ALGORITHMS I 3 sh

Data structures, searching and sorting, scheduling techniques, dynamic programming, introduction to complexity theory.

Prerequisites: Y 0701 506, Y 1701 503.

Y 0701 584 OPERATING SYSTEM DESIGN 3 sh

Design and implementation of operating systems, multiprogramming, multiprocessing, device management, scheduling, paging and segmentation, virtual memory, case studies.

Prerequisite: Y 0701 581.

Y 0701 585 TOPICS IN COMPUTER SCIENCE 3 sh

Recent developments in the field. Topics such as Monte Carlo methods, simulation and special areas of application may be selected.

Prerequisite: Y 0701 580, Instructors Permission.

Y 0701 586 INFORMATION RETRIEVAL AND SYSTEM DESIGN 3 sh

Random and sequential files. File organization and processing. Access methods, data bases, system dynamics, concepts and design of information systems, case studies and applications. Programming in Cobol or PL/I.

Prerequisite: Y 0701 506.

Y 0701 587 MICROCOMPUTERS AND COMPUTER INTERFACES 3 sh

Introduction to chip technology and microprocessors, microcomputer architecture, instruction sets and programming, microcomputer peripherals and interfaces.

Prerequisite: Y 0701 507.

Y 0701 588 COMPUTER ALGORITHMS II 3 sh

Branch and bound techniques, free traversal techniques, the fast Fourier transform, NP-complete problems, and approximations.

Prerequisite: Y 0701 583.

Y 0701 589 COMPUTER SIMULATION OF DISCRETE SYSTEMS 3 sh

Introduction to simulation and discrete simulation models. Queuing theory and stochastic processes. Simulation methodology including generation of random numbers and variates, design of simulation experiments, analysis of data generated by simulation experiments and validation of models. Survey of current simulation languages and selected applications. Prerequisites: Y 0701 580, Y 1701 464, Y 1701 560.

Y 0701 590 COMPUTER SIMULATION OF CONTINUOUS SYSTEMS 3 sh

Numerical integration methods, integration packages, integration error, computer solution of the following types of problems: initial value problems, boundary value problems, integral equations, integro-differential equations and difference-differential equations.

Prerequisites: Y 1701 420, Y 1701 560; Y 0701 580.

Y 0701 591 COMPILER THEORY AND CONSTRUCTION 3 sh

Introduction to the formal description of programming languages, the theory of parsing, and the concepts and techniques used in the construction of compilers.

Prerequisite: Y 0701 580.

Y 0701 592 DATA BASE DESIGN AND IMPLEMENTATION 3 sh

To develop software concepts and specification for a Data Base Management System. Describe the program modules necessary to write and implement the design for a selected DBMS application.

Prerequisite: Y 0701 586.

Y 0701 593 STRUCTURED SYSTEM DESIGN AND ANALYSIS 3 sh

A study of the design of large-scale computer systems relative to the constraints imposed by hardware, software and particular types of applications. Recent work in automated system design will be discussed.

Prerequisite: Y 0701 586.

Y 0701 594 SOFTWARE ENGINEERING AND RELIABILITY 4 sh

This course will introduce the principles and methods for the design, coding, and verification of software systems. Topics include software design techniques, programming methodology, programming testing, proving program correctness, software reliability, and software management.

Prerequisite: Y 0701 593.

MATHEMATICS

Y 1701 501 FUNDAMENTALS FOR COMPUTER SCIENCE I 4 sh

Differential and integral calculus including applications to computer science. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Permission of the Graduate Advisor.

Y 1701 502 FUNDAMENTALS FOR COMPUTER SCIENCE II 4 sh
A continuation of 1701 501. Infinite series, multivariate calculus, introduction to differential equations, vectors and matrices and an introduction to linear algebra. May not be used for credit by Mathematics or Computer Science majors.
Prerequisite: Y 1701 501 or Permission of the Graduate Advisor.

Y 1701 503 FUNDAMENTALS FOR COMPUTER SCIENCE III 4 sh
A continuation of 1701 501 and 502. Sets, relations, functions, probability and discrete mathematical structures, combinatorial analysis, graph theory, logic and Boolean algebra, and applications to computer science. May not be used for credit by Mathematics or Computer Science majors.
Prerequisite: Y 1701 502 or Permission of Graduate Advisor.

Y 1701 510, 511 WORKSHOP IN MATHEMATICS each 3 sh
EDUCATION I, II
Specific contemporary topics and current issues in the junior and senior high school. Available experimental and commercial textbooks. Mathematical content. Sources of aids and equipment. Evaluation, training of key in-school personnel. Problems of implementation.

Y 1701 520 SET THEORY 3 sh
Historical development, paradoxes, ordered sets, Schroder-Bernstein theorem, axiom of choice, transfinite induction, cardinal and ordinal numbers.
Prerequisite: Y 1701 222.

Y 1701 521, 522 REAL VARIABLES I, II each 3 sh
Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP, metric, normed vector, Banach and Hilbert spaces. The sequences 521, 522 and 525, 526 are usually offered in alternate years.
Prerequisites: Y 1701 425 for 521, Y 1701 521 for 522.

Y 1701 525, 526 COMPLEX VARIABLES I, II each 3 sh
Integration and differentiation in the complex domain, Cauchy's theorem and integral formula, Laurent expansion, residues, elements of conformal mapping, series and product representations. The sequences 525, 526 and 521, 522 are usually offered in alternate years.
Prerequisites: Y 1701 425 for 525, Y 1701 525 for 526.

Y 1701 531, 532 ABSTRACT ALGEBRA I, II each 3 sh
Basic algebraic structures including groups, rings, fields, modules and lattices. The sequences 531, 532 and 535, 536 are usually offered in alternate years.
Prerequisites: Y 1701 431 for 531, Y 1701 531 for 532.

Y 1701 535, 536 LINEAR ALGEBRA I, II each 3 sh
Vector spaces and linear transformations, including inner products, matrix representations, binary and quadratic forms, eigenvectors, canonical forms, and functions of matrices. The sequences 535, 536 and 531 532 are usually offered in alternate years.
Prerequisites: Y 1701 335 for 535, Y 1701 535 for 536.

- Y 1701 537 MATHEMATICAL LOGIC** **3 sh**
 Topics include propositional and predicate calculus, model theory, Godel's completeness theorems and decidability.
 Prerequisite: Y 1701 436.
- Y 1701 540 PROBABILITY** **3 sh**
 Sample spaces and events, combinatorial analysis, conditional probability and stochastic independence, random variables and probability distributions, expected value and variance, probability generating functions, continuous random variables.
 Prerequisite: Y 1701 340.
- Y 1701 541 APPLIED STATISTICS** **3 sh**
 Review of estimation and hypothesis testing for one sample and two sample problems; introduction to non-parametric statistics, sampling techniques, and linear regression; fundamental principles of design, analysis of variance and analysis of covariance.
 Prerequisites: Y 1701 440 or Y 1701 443.
- Y 1701 542 INTRODUCTION TO STOCHASTIC PROCESSES** **3 sh**
 Generating functions, convolutions, recurrent events, random walk models, Gambler's ruin problems, Markov chains and processes, time dependent stochastic processes, queuing theory and epidemic models.
 Prerequisite: Y 1701 540.
- Y 1701 543 STATISTICAL THEORY** **3 sh**
 Review of the normal, gamma and chi-square distributions; sampling theory and the 't', and 'F' distributions, point estimation of one parameter, minimum variance unbiased estimation, method of moments estimators, maximum likelihood estimation and interval estimation; testing hypotheses, Neyman-Pearson Lemma, likelihood ratio tests, power; bivariate normal distribution.
 Prerequisites: Y 1701 440 or Y 1701 443.
- Y 1701 545 MULTIVARIATE ANALYSIS** **3 sh**
 Statistical procedures for the multivariate normal distribution. Parameter estimation and derived distributions, Hotelling's T statistic, multivariate linear hypothesis, principal component analysis.
 Prerequisites: Y 1701 541, Y 1701 548.
- Y 1701 546 NON-PARAMETRIC STATISTICS** **3 sh**
 Selected distribution-free tests and estimation techniques including Sign, Kolmogorov-Smirnov, Wilcoxon Signed Rank, Mann-Whitney, Chi-Square, rank correlation, Kendall's Tau, Kruskal-Wallis, Friedman, McNemar, and others.
 Prerequisite: Y 1701 440.

Y 1701 547 DESIGN & ANALYSIS OF EXPERIMENTS 3 sh

Fundamental principles of design, completely randomized experiments, randomized block, latin squares, Graeco-Latin squares, split-plot design, factorial experiments, confounding, fractional replication, experimentation and sampling errors.

Prerequisites: Y 1701 541 or Y 1701 548.

Y 1701 548 APPLIED REGRESSION ANALYSIS 3 sh

Matrices, simple linear regression, correlation, analysis of residuals, multiple regression, polynomial regression, partial correlation, stepwise regression, regression and model building, regression applied to analysis of variance problems, introduction to nonlinear regression.

Prerequisites: Y 1701 440 or Y 1701 443.

Y 1701 549 SAMPLING TECHNIQUES 3 sh

Sampling and survey methodology; basic sampling theory; simple, stratified, random, cluster, systematic and area sampling. Sampling errors and estimation procedures.

Prerequisites: Y 1701 440 or Y 1701 443.

Y 1701 551 TOPOLOGY 3 sh

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities, metrizability, introductory algebraic topology, homology groups and homotopy.

Prerequisite: Y 1701 425.

Y 1701 554 PROJECTIVE GEOMETRY 3 sh

Projective planes and spaces are studied by synthetic and analytic approaches. Topics covered include the theorems of Desargues and Pappus, harmonic sequences, projectivities, coordinatization, finite planes, and conics.

Prerequisite: Y 1701 335.

Y 1701 555 DIFFERENTIAL GEOMETRY 3 sh

Application of vectors to the study of classical three-dimensional geometry. Topics include: plane and space curves, first and second fundamental forms, lines of curvature, asymptotic lines, geodesics.

Prerequisite: Y 1701 222.

Y 1701 560 NUMERICAL ANALYSIS 3 sh

Polynomial approximation, interpolation, numerical solution of equations, linear algebraic equations, matrix inversion and eigenvalue analysis, numerical solution of differential equations.

Prerequisites: Y 0701 506, Y 1701 335, Y 1701 425.

Y 1701 564 ORDINARY DIFFERENTIAL EQUATION 3 sh

Existence and uniqueness of solutions, periodic solutions, linear and nonlinear systems, singularities, stability theory.

Prerequisites: Y 1701 335, Y 1701 420.

Y 1701 566 PARTIAL DIFFERENTIAL EQUATIONS 3 sh

First order equations, separation of variables, Fourier's series, hyperbolic, parabolic and elliptic equations, transform methods.

Prerequisites: Y 1701 335, Y 1701 420, Y 1701 426.

Y 1701 568, 569 APPLIED MATHEMATICS I, II each 3 sh

Discrete mathematics with applications to the social and behavioral sciences, initial and boundary value problems with applications to the physical sciences, Green's functions, integral equations, calculus of variations.

Prerequisites: Y 1701 420, 425 for 568, Y 1701 568 for 569.

Y 1701 570 ADMINISTRATION AND SUPERVISION OF MATHEMATICS 3 sh

Problems of organization, administration and supervision in the Mathematics program of the school. Functions, duties and qualifications of the supervisor are investigated. Current problems and research findings.

Y 1701 571 CURRICULUM CONSTRUCTION IN MATHEMATICS 3 sh

Contemporary proposals for the mathematics of grades K through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

Y 1701 572 TEACHING OF GENERAL MATHEMATICS 3 sh

Mathematics programs for the non-college-bound high school student. Investigation of contemporary literature. Basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

Y 1701 573 MATHEMATICS MATERIALS FOR THE TEACHERS OF MATHEMATICS 3 sh

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, aids, and models and to material for the Mathematics laboratory and club activities.

Y 1701 574 PROBLEM ANALYSIS IN SECONDARY MATHEMATICS 3 sh

Psychology and techniques of problem-solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine problems from high school mathematics. Problem formation and solution. Prerequisite: Y 1701 222.

Y 1701 575 SELECTED TOPICS IN MATHEMATICS 3 sh

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics selected to give the teacher a professionalized subject matter viewpoint of algebra, geometry, number theory, real and complex analysis, probability and statistics.

Prerequisite: Y 1701 222.

Y 1701 576 RESEARCH SEMINAR IN MATH EDUCATION 3 sh

Designed for matriculated graduate students in the Mathematics Education program. Students survey and analyze recent research projects.

Prerequisite: Admission to Master's Program.

Y 1701 577 MATHEMATICS EDUCATION IN THE ELEMENTARY SCHOOL 3 sh

The contemporary mathematics curriculum of the elementary and middle school. Includes the role of behavioral objectives and learning theory in curriculum development, teacher training and related research findings.

Y 1701 578 DIAGNOSTIC AND PRESCRIPTIVE TECHNIQUES FOR TEACHING MATHEMATICS BASIC SKILLS 3 sh

An investigation of the role of basic skills instruction in all areas of the mathematics curriculum.

Y 1701 579 APPLIED MATHEMATICS FOR THE SECONDARY SCHOOLS 3 sh

Applications of secondary and undergraduate mathematics and techniques for including these applications in the secondary curricula.

Prerequisites: More than one year of teaching experience, Y 1701 335, Y 1701 340.

Y 1701 595 SEMINARS IN MATHEMATICS 3 sh

Guided studies of selected topics in major fields of interest.

MUSIC

Chairperson: Dr. Jack Sacher

Graduate Advisor: Professor John Girt, Dr. Ruth Rendleman

Graduate study in Music offers three concentrations leading to the degree of Master of Arts: Performance, Theory/Composition and Music Education. Performance stresses applied music skills; Theory/Composition stresses creativity and the structure of music; Music Education stresses philosophical and practical approaches to the work of the music specialist in the American public school.

Although the study of Music Theory and of Applied Music is required of all graduate students regardless of the concentration, each concentration provides for individualized course election in accordance with the

background, needs and interests of the student.

Registration in Applied Music and Theory is dependent on the placement examination administered by the Department; students may not register for work in these areas until the examination has been taken (see below under Admission Requirements).

ADMISSION REQUIREMENTS

In addition to the general College graduate admission requirements stated in this bulletin (see Admission to Graduate Study), all students must present an undergraduate major in Music with at least 40 semester hours of work in theory, music history and private study in a performance medium. Courses in Music Education may be included as part of this background.

Matriculation as a graduate Music major requires taking the Music Department's Audition and Placement Examination. Information regarding the nature of this examination and the scheduling of it must be specifically requested from the Graduate Admissions Office by the student. Applications to take the examination should be sent to "Chair, Auditions, Department of Music," no less than two weeks prior to the examination. Auditions take place the first or second Saturday of December, March, April and June.

All applicants must demonstrate familiarity with musical vocabulary and literature and proficiency in the following: performing primary, sight singing, aural and written theory, score analysis, listening analysis, and piano secondary skills (keyboard harmony, sight-reading of chorale literature and the like). Audition literature in the primary medium must represent significant solo material from a variety of eras, one of which must be contemporary. Applicants majoring in orchestral instruments must also present significant passages from orchestral literature.

Applicants to the theory/composition concentration must submit a portfolio of compositions and/or analytical studies for consideration by the theory faculty.

Applicants to the performance concentration must present an undergraduate major in the primary medium (including at least six semesters of study plus a graduation recital) or professional experience satisfactory to the Music department.

Applied Music

Special regulations and procedures for the study of Applied Music are available from the Graduate Advisor. Tuition for the study of Applied Music is based on a special fee structure; information is available from the Registrar or the Department of Music.

Applied Music may be taken for academic credit only after the student has completed the Department Audition and Placement Examination. Applied Music may be studied only with MSC faculty or with teachers approved by the department. Every course number in the area of Applied Music (prefix 1004) requires the written permission of the Gradu-

ate Advisor, the instructor and the Department Chairperson. These signatures must be obtained by July 1 (for those desiring study in the fall) or by December 1 (for those studying in the spring). Lessons are normally not given in the summer. A signature of approval is good for only 1 semester.

No more than 2 semester hours of credit may be awarded for work in a secondary medium.

Courses for 4 and 6 semester hours are open only to majors in the Performance (Applied Music) concentration, who are expected to take jury examinations in each semester of Applied Music study in which a full recital is not given. The grade for the last semester of the sequence will not be given until all recital requirements are completed.

Examinations

All candidates for the degree of Master of Arts in Music must pass the Department's Comprehensive Examination, given each year in October and March. Applications for this examination must be made in writing to the Graduate Advisor by September 1 for the October examination and by February 1 for the March examination.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MUSIC

Note: The 32 semester hours noted for each concentration is a minimum. Undergraduate transcripts and audition results may require either additional undergraduate work before graduate courses are begun or graduate work in excess of the minimum 32 semester hours, or both.

Concentration in Performance

- I. Required courses 18 sh
 - A. Either of the following sequences: 1004 504/505
or 1004 506/507/508 (Grades to be withheld pending
completion of recital requirements) 12 sh
 - B. Theory sequence 1016 511/512 6 sh
- II. Electives in Music History or Music Literature 8 sh
- III. Humanities electives (art, language, literature, history,
philosophy; may be at 400 level) 6 sh
- IV. Two recitals 0 sh
 - A. Each to include at least 60 minutes of music exclusive of
intermissions or pauses.
 - B. One must be public; the other may be public or before a faculty
jury. Procedures are available from the Graduate Advisor for
Music.
- V. Comprehensive examination 0 sh
(Voice majors and accompanying majors will be given language tests
as well. Details are available from the Graduate Advisor.)

Note: Performance majors wishing to emphasize accompanying must arrange this with the Graduate Advisor.

Concentration in Theory/Composition

I.	Required courses	23 sh
A.	Applied Music, selected with approvals of instructor, Graduate Advisor and Department Chairperson from 1004 500, 501, 502, or 503	4 sh
B.	Theory sequence 1016 511, 512	6 sh
C.	Private study in composition (may be either creative or analytical work) 1016 518, 519	6 sh
D.	Seminar or independent study in Music History and research	3 sh
E.	Theory and composition	4 sh
II.	Humanities electives (art, language, literature, history, philosophy; may be at 400 level)	3 sh
III.	Music electives	8 sh
IV.	Composition and public performance of one of the larger forms for orchestra, vocal ensemble or chamber ensemble	0 sh
V.	Comprehensive examination	0 sh

Concentration in Music Education

I.	Required courses	16 sh
A.	Applied Music, selected with approval of instructor, Graduate Advisor and Department Chairperson from 1004 500, 501, 502, 503, or master classes	4 sh
B.	Education or Psychology (may be at 400 level)	3 sh
C.	Theory sequence 1016 511, 512	6 sh
D.	Seminar in Music Education 0832 603	3 sh
II.	Music Education	6 sh
III.	Humanities electives (art, theater, literature, history, philosophy; may be at 400 level)	6 sh
IV.	Music electives	4 sh
V.	Comprehensive examination	0 sh

Certification

While some of the graduate courses listed in this catalog may be applied to certification as a teacher in the New Jersey public schools or as a Registered Music Therapist, the bulk of courses required by these certifications are available only at the undergraduate level. Certification is quite separate from a Master of Arts degree. Those interested should contact the Department of Music for an interview with the appropriate advisor prior to beginning the admission process.

MUSIC

Course Descriptions

H 0832 500 WORKSHOP IN MUSIC EDUCATION 1-3 sh

Changing conditions in the schools and new methods and materials for in-service and pre-service teachers. Lectures, demonstration, literature and materials selected according to workshop focus. Special fee.

**H 0832 519 MUSIC LEARNING THEORY: SKILL, CONTENT 3 sh
AND SEQUENCE**

Study of sequential steps in learning musical concepts and skills by examination of research in music content and its perception.

H 0832 520 GENERAL MUSIC IN SECONDARY SCHOOL 3 sh

Examination and practicum of methods, materials and philosophies of non-performance courses in the junior and senior high school.

H 0832 522 PEDAGOGY OF THE PIANO 2 sh

Principles, materials and techniques for teaching piano to individuals or groups, in school or studio situations.

H 0832 523 PEDAGOGY OF BRASS INSTRUMENTS 2 sh

Principles, materials, and techniques for teaching brass instruments to individuals or groups, in school or studio situation.

**H 0832 526 CLASSROOM METHODS: PERCUSSION 2 sh
INSTRUMENTS**

Materials of 0832 522 as applied to percussion instruments.

H 0832 527 PEDAGOGY OF THE VOICE 2 sh

Principles, materials, and techniques for teaching voice to individuals or groups, in school or studio situation.

**H 0832 550 SPECIAL EDUCATION TECHNIQUES IN 3 sh
MUSIC EDUCATION**

Special education techniques as applied to music education, teaching music through movement and simple rhythm instruments. Covers all areas of a broad-based education program as it applies to K-12 populations with mild to moderate handicaps.

H 0832 578 KODÁLY SYSTEM IN MUSIC EDUCATION 2 sh

Procedures for using Kodály materials and techniques in teaching music reading and comprehension.

**H 0832 579 PROBLEMS AND MATERIALS OF 2 sh
INSTRUMENTAL MUSIC**

Evaluation of teaching experiences, problems of organizing instrumental music in school, and literature for orchestra, band and small ensemble at various levels.

H 0832 580 PROBLEMS AND MATERIALS OF CHORAL MUSIC 2 sh

Survey of choral repertoire for accompanied and unaccompanied groups, for changing, unchanged and mixed voices. Evaluating materials and building programs. Class constitutes a laboratory chorus.

H 0832 581 ORFF WORKSHOP I—CONCEPTS AND SKILLS 3 sh

Study of basic philosophy of the Orff Schulwerk through movement, melodic and rhythmic training, improvisation and the use of relevant instruments and materials.

H 0832 582 ORFF WORKSHOP II—PEDAGOGY AND PRACTICES 3 sh

Refinement of skills in the use of Orff concepts, materials and techniques; practicum in the Orff pedagogy as applicable to American children.
Prerequisite: H 0832 581 or permission of instructor.

H 0832 583 ORFF WORKSHOP III—ADVANCED PRINCIPLES AND TECHNIQUES 3 sh

Comprehensive study of the scope of Orff pedagogy and mastery of techniques necessary for the development of music curricula and materials based on employing the Orff approach.

Prerequisite: H 0832 582 or permission of instructor.

H 0832 599 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4 sh

Regularly listed courses pursued in greater depth, by arrangement with graduate advisor for music prior to registration. May be elected more than once during the program, but only one course per semester.

Prerequisite: Permission of instructor required.

H 0832 600 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4 sh

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity, independent of any course structure. The student's area of study and course advisor must be arranged prior to the semester in which the student registers for independent study. Work for this course may be spread over two semesters.

Prerequisite: Written permission of the Graduate Advisor for Music.

H 0832 603 SEMINAR IN MUSIC EDUCATION 3 sh

Philosophies of Music Education and their application to the classroom. Investigation and application of techniques of research as they apply to Music Education.

H 0832 604 SUPERVISION AND ADMINISTRATION OF SCHOOL MUSIC PROGRAMS 3 sh

Functions and responsibilities of school music administration based on philosophies of Music Education, leadership styles and techniques of management and personnel relationships.

H 1004 500 APPLIED MUSIC: PRIMARY INSTRUMENT I 2 sh

Study of performance in the student's major area of musical expression in a manner suited to those specializing in the areas of Music Education or Theory-Composition. Fifteen one-hour lessons, private instruction. Music fee.

Prerequisite: Admission by examination only.

H 1004 501 APPLIED MUSIC: PRIMARY INSTRUMENT II 2 sh

Study of performance in the student's major area of musical expression in a manner suited to those specializing in the areas of music education or Theory-Composition. Fifteen one-hour lessons, private instruction. Music fee.

Prerequisite: Admission by examination only.

H 1004 502 APPLIED MUSIC SECONDARY INSTRUMENT I 1 sh

An elementary course, for both the beginner and the student with limited background. Fifteen half-hour lessons per semester, private instruction.

H 1004 503 APPLIED MUSIC SECONDARY INSTRUMENT II 1 sh

An elementary course, for both the beginner and the student with limited background. Fifteen half-hour lessons per semester, private instruction. Music fee.

Prerequisite: Admittance with permission only.

H 1004 504 APPLIED MUSIC III—PRIMARY INSTRUMENT 6 sh

Intensive study in a major performing area for students majoring in Applied Music. Two recitals of professional caliber are prepared as representative of two semesters of work or one recital per semester. At least one of these recitals must be publicly performed, the other may be before a faculty jury. Fifteen one-hour lessons per semester. Music fee.

Prerequisite: Admission by audition only and open only to majors in Applied Music.

H 1004 505 APPLIED MUSIC IV—PRIMARY INSTRUMENT 6 sh

Continuation of H 1004 504. Music fee.

H 1004 506 APPLIED MUSIC V—PRIMARY INSTRUMENT 4 sh

Intensive study in the major area of performance similar to that offered under Music 1004 504 and 505, but spread over three semesters of work instead of two. Fifteen one-hour lessons per semester. Music fee.

Prerequisites: Open only to students majoring in Applied Music, by audition only.

H 1004 507 APPLIED MUSIC IV—PRIMARY INSTRUMENT 4 sh

Continuation of Music 506. Music fee.

H 1004 508 APPLIED MUSIC VII—PRIMARY INSTRUMENT 4 sh

Continuation of Music 507. Music fee.

- H 1004 528 SURVEY OF WIND INSTRUMENT MUSIC** **2 sh**
 For brass and woodwind players, solo, ensemble and full band; materials for elementary and secondary school instrumentalists. Attention to music written for wind instruments and newly-published compositions. Class constitutes a laboratory band and ensemble groups.
- H 1004 529 CHORAL CONDUCTING** **2 sh**
 Problems and techniques of choral rehearsal and performance; tone production, intonation, balance and diction. Accompanied and unaccompanied choral repertoire.
 Prerequisites: Undergraduate course in choral conducting or experience satisfactory to the instructor or the Graduate Advisor for Music.
- H 1004 530 ADVANCED CONDUCTING** **3 sh**
 Baton techniques, clef reading, playing from score at the piano, transposition, score analysis, rehearsal techniques and problems of interpretation and accompaniment by orchestra and band, as well as choral conducting techniques.
 Prerequisite: Preparation satisfactory to the instructor or the Graduate Advisor.
- H 1004 531 ENSEMBLE: CHORUS I** **2 sh**
 Rehearsal and performance in conventional choral media.
 Prerequisite: Admission by audition only.
- H 1004 532 ENSEMBLE: CHORUS II** **2 sh**
 A second semester of Music 1004 531.
- H 1004 533 ENSEMBLE: OPERA WORKSHOP I** **2 sh**
 Rehearsal and performance of operatic repertoire in English or English translation. Open to pianists and singers.
 Prerequisite: Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered.
- H 1004 534 ENSEMBLE: OPERA WORKSHOP II** **2 sh**
 Rehearsal and performance of operatic repertoire in English or English translation. Open to pianists and singers.
 Prerequisite: Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered.
- H 1004 535 ENSEMBLE: BAND I** **2 sh**
 Rehearsal and performance of band and wind ensemble literature.
 Prerequisite: Admission by audition only.
- H 1004 536 ENSEMBLE: BAND II** **2 sh**
 A second semester of Music 1004 535.
- H 1004 537 ENSEMBLE: ORCHESTRA I** **2 sh**
 Rehearsal and performance of orchestral repertoire.
 Prerequisite: Admission by audition only.
- H 1004 538 ENSEMBLE: ORCHESTRA II** **2 sh**
 A second semester of Music 1004 537.

H 1004 539 MASTER CLASS IN MUSICAL PERFORMANCE: 2 sh
GERMAN VOCAL LITERATURE

Coaching small groups in refinements of performance, including stylistic interpretation, programming, interpretative analysis, diction, etc. Open through audition to both singers and pianists.

H 1004 540 MASTER CLASS IN MUSICAL PERFORMANCE: 2 sh
ITALIAN VOCAL LITERATURE

Similar to 1004 539, but focusing on Italian repertoire. Open through audition to singers and pianists.

H 1004 541 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: FRENCH VOCAL LITERATURE

Similar to 1004 539, but focusing on French repertoire. Open through audition to singers and pianists.

H 1004 542 MASTER CLASS IN MUSICAL PERFORMANCE: 2 sh
ENGLISH VOCAL LITERATURE

Similar to 1004 530, but focusing on English repertoire. Open through audition to singers and pianists.

H 1004 543 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: WOODWIND LITERATURE

Coaching small groups in solo and small ensemble literature for woodwind instruments. Stress on stylistic interpretation, tone, balance and other refinements of performance. Open through audition. Pianists may register as accompanists but must audition.

H 1004 544 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: BRASS LITERATURE

Similar to 1004 543, but focusing on brass repertoire. Open to pianists and brass players through audition.

H 1004 545 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: STRING LITERATURE

Similar to 1004 543, but focusing on string repertoire. Open to pianists and string players through audition.

H 1004 546 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: ORGAN LITERATURE

Similar to 1004 543, but focusing on organ repertoire. Open to organists only, through audition.

H 1004 547 MASTER CLASS IN MUSICAL 2 sh
PERFORMANCE: PIANO LITERATURE

Similar to 1004 543, but focusing on piano repertoire. Open to pianists only, through audition.

H 1004 548 MASTER CLASS IN MUSICAL PERFORMANCE: 2 sh
PERCUSSION LITERATURE

Similar to 1004 543, but focusing on percussion repertoire. Open to percussionists through audition.

H 1004 599 INDEPENDENT STUDY IN PERFORMANCE 1-4 sh

Regularly listed course work pursued in great depth, by permission of Graduate Advisor for Music prior to registration. May be elected more than once during the program but only one course per semester.

Prerequisite: Permission of instructor.

H 1004 600 INDEPENDENT STUDY IN PERFORMANCE 4 sh

Individual pursuit of a problem of performance or an aspect of musical repertoire, culminating in a performance and appropriate written work. Arranged with the Graduate Advisor for Music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters of work before project is completed. Written permission required. Special fee: see schedule booklet. Permission of instructor.

H 1006 500 SELECTED TOPIC IN MUSIC I 1.5 sh

Intensive study of a single composer or limited array of works; may be taken a second time. 7-week course.

H 1006 501 SELECTED TOPIC IN MUSIC II 1.5 sh

Intensive study of a single composer or limited array of works; may be taken a second time; 7-week course.

H 1006 505 PERFORMANCE PRACTICE IN THE BAROQUE ERA 3 sh

Study of problems of esthetics, notation, instrumentation, ornamentation and interpretation in vocal and instrumental music from the time of Caccini and Monteverdi through that of J. S. Bach and Handel.

H 1006 506 PERFORMANCE PRACTICE IN THE CLASSICAL ERA 3 sh

Study of problems of esthetics, notation, instrumentation, ornamentation and interpretation in vocal and instrumental music from the second decade of the eighteenth century through the works of Beethoven.

H 1006 549 MODERN MUSIC 3 sh

Study of musical styles of the twentieth century. Historical sources, major composers and recent trends.

H 1006 550 CHAMBER MUSIC 3 sh

Survey of vocal and instrumental music composed for one to ten performers, one per part, from the Renaissance through the modern era. Analysis of both compositional style and nature of chamber genres.

H 1006 551 THE LITERATURE OF ORCHESTRA 3 sh

Historical survey of such genres as the suite, overture, concerto, symphony and tone poem from the development of orchestral style of playing from the seventeenth century to the present.

H 1006 552 ETHNOLOGICAL APPROACH TO MUSIC 3 sh

Non-western music, ethnic roots and influences, theory, media and performance practices. Folk and professional idioms of the Far East, Near East, Africa, Europe and the Americas. Study for non-majors will emphasize musical experience and social-cultural background, while Music majors will also pursue a more technical approach.

H 1006 553 JAZZ 3 sh

Jazz as an art form, its impact on music and other contemporary arts; the sociological impact in American and world culture. Examination of specific performance techniques.

H 1006 554 DEVELOPMENT OF THE OPERA I 3 sh

Operas of the baroque and classical eras from Monteverdi through Beethoven; evolution of style, changing esthetics, characterization and plot development and the cultural environment within which these developments have taken place.

H 1006 555 OPERA II 3 sh

Continuation of 1006 554, examining operatic styles and representative works of the romantic and modern eras.

Prerequisite: H 1006 554 or permission of instructor.

H 1006 599 INDEPENDENT STUDY—MUSIC HISTORY & LITERATURE 1-4 sh

The undertaking of course work in one of the regularly listed catalogue courses of the Department of Music (but not to include Applied Music) in depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the Graduate Advisor for Music prior to registration. Independent study may be elected more than once during the graduate program, but may apply to only one course per semester.

H 1006 600 INDEPENDENT STUDY—MUSIC HISTORY & LITERATURE 1-4 sh

Individual research into a historical problem culminating in an extended written document of length and nature approved by the instructor. May be extended beyond a single semester.

Prerequisite: Permission of instructor.

H 1006 604 SEMINAR IN HISTORICAL RESEARCH 3 sh

Study of music bibliography, research method and critical analysis.

Prerequisite: Open to music majors only.

H 1006 605 SEMINAR IN HISTORICAL AND THEORETICAL STUDIES 3 sh

Research and discussion of selected topics in the literature of music focusing on stylistic and analytical problems.

Prerequisite: Music majors or permission of instructor.

H 1006 606 SEMINAR IN HISTORICAL AND THEORETICAL STUDIES II 3 sh

Continuation of 1006 0605.

Prerequisite: H 1006 605 or permission of instructor.

H 1016 509 ANALYTICAL SYSTEMS AND PROCEDURES IN MUSIC I 3 sh

An introduction to sophisticated analytical systems with particular emphasis on Schenker analysis both as a tool for improving hearing and performance and as a worthy study of music in its own right.

Prerequisites: Music major status and satisfactory completion of department placement test.

H 1016 510 ANALYTICAL SYSTEMS & PROCEDURES IN MUSIC II 3 sh

A continuation of 1016 509.

Prerequisite: H 1016 509.

H 1016 511 THEORETICAL AND AURAL SKILLS IN MUSIC I 3 sh

Principles and practice of music construction, aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music as a base, with specific techniques of pitch and rhythm approached from harmonic and contrapuntal standpoints. Primitive and simple folk idioms, modal counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental idioms tonal counterpoint in two parts and free composition.

Prerequisite: Open to Music majors only.

H 1016 512 THEORETICAL AND AURAL SKILLS IN MUSIC II 3 sh

Continuation of 1016 511. Complex non-western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.

Prerequisite: H 1016 511.

H 1016 513 COMPOSITION 3 sh

Writing of variations, small forms, songs and compositions for small ensembles. Analysis and workshop performance.

Prerequisite: H 1016 511.

H 1016 515 ADVANCED COUNTERPOINT 3 sh

Analysis and composition of polyphonic forms, techniques in inventions, canons and motets based on the several compositional styles of western music.

Prerequisite: H 1016 512.

H 1016 516 ADVANCED INSTRUMENTATION 2 sh

Workshop course; Tutti instrumentation in orchestra and band, scoring for small ensembles, instruments, instrumental families and their possibilities and best uses. Direct instrumental setting of songs, hymns, etc., without the writing of a score. Elements of band military march construction and scoring. Performance of student instrumentations when possible.

Prerequisite: H 1016 511.

H 1016 518 PRIVATE STUDY IN COMPOSITION I 0 sh

Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester. Music fee.

Prerequisite: Admission by permission only.

H 1016 519 PRIVATE STUDY IN COMPOSITION II 3 sh

Continuation of 1016 518. Music fee.

Prerequisite: H 1016 518, permission of instructor.

H 1016 599 INDEPENDENT STUDY IN THEORY/COMPOSITION 1-4 sh

Individual work performed in connection with a regularly scheduled course but in greater depth than normally required by that course.

Prerequisite: permission of instructor.

H 1016 600 INDEPENDENT STUDY IN THEORY/COMPOSITION 1-4 sh

Individual pursuit of an area of research or analysis culminating in an extended written work of a length or nature approved by the instructor. May cover two semesters; student registers for the one in which the work will be completed. Special fee.

Prerequisite: Written permission required.

H 1095 500 PSYCHOLOGY OF MUSIC 3 sh

Integration of psychological foundations of music with emphasis on their relationships to music therapy. Study of theories of psychotherapy, emotional content of music, musical meaning, testing for musical abilities, music learning.

Prerequisites: Two undergraduate Music courses and one course in Psychology.

H 1095 502 THE USE OF MUSIC IN SPECIAL EDUCATION 3 sh

Musical development relative to child development. Music activity adapted for varying handicapped child populations. Purposes of education and therapy.

Prerequisites: Undergraduate developmental or child psychology of the handicapped or related course, experience with handicapped children and proficiency in music.

**H 1095 572 THE USE OF RECREATIONAL
MUSIC IN THERAPY**

2 sh

The use of music activities with handicapped individuals. Techniques of presenting activities, encouraging participation and making necessary adaptations for special types of handicapped individuals.

H 1095 599 INDEPENDENT STUDY IN MUSIC THERAPY 3 sh

Regularly listed courses pursued in greater depth, by arrangement with the Graduate Advisor for Music prior to registration. May be elected more than once during the program, but only one course per semester.

Prerequisite: Written permission required.

H 1095 600 INDEPENDENT STUDY IN MUSIC THERAPY 4 sh

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. Arranged with the Graduate Advisor for Music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed. Special fee: see schedule booklet.

Prerequisite: Written permission required.

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Chairperson: Dr. Joan Schleele

Graduate Advisor: Dr. Richard W. Tews

Montclair State College's graduate program in Physical Education provides students with the opportunity to explore areas of interest and expand their knowledge through in-depth study in an area of specialization. Students are given opportunities to identify and trace relationships between the past and present as well as assess present and future trends in Physical Education.

The Master of Arts degree with a major in Physical Education has been offered at Montclair State College since 1964. The program's high quality is evidenced by the positions of leadership many of its graduates hold in the Physical Education field and by high ratings by independent evaluation.

Special facilities for research in motor learning, biomechanics and exercise physiology are offered in the Human Performance Laboratory.

These facilities are available for classwork and independent research by students and faculty.

The Physical Education, Recreation and Leisure Studies Department is a member of the Panzer School Council and is administered by the School of Professional Studies.

ADMISSION REQUIREMENTS

A bachelor's degree with a major and a certificate in Physical Education from an accredited college or university is required for admittance. Any applicant's undergraduate records and Graduate Record Examination Aptitude Test Scores must indicate a high degree of probable success in the program. Additional course work may be required if there are deficiencies in undergraduate preparation.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PHYSICAL EDUCATION

I. Required Courses*

0835 575	Philosophical and Sociological Foundations of Sport and Physical Education	3 sh
0835 579	Advanced Measurement and Evaluation in Physical Education	3 sh
0835 503	Research Methods in Physical Education	3 sh
0835 603	Research Project	4 sh

(Full year course, register in Fall only)

*Course 579 *must* be completed before 503 and both of the above courses *must* be completed *before* 603. In special cases 579 and 503 may be taken concurrently with permission of the instructor of 503.

II. Areas of Specialization

In addition to the required courses above, students are required to complete 15 semester hours in one of the following areas of specialization.

A. Teaching and Administration of Physical Education

1. Required for both General Programs and Programs for the Disabled

*0835 557	Administration and Supervision of Physical Education	3 sh
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(And select one of the following)

*0835 506	Physical Education Programs for Secondary Schools	3 sh
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or

*0835 576	Physical Education Programs for Elementary Schools	3 sh
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*Required

2. Specialization Courses

a. General Programs

*0835 550	Literature and Trends in Physical Education	3 sh
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- **0835 492 Selected Topics in Physical Education 3 sh
- 0835 516 Comparative Physical Education 3 sh
- 0835 556 Psychological Basis of Motor Learning and Performance 3 sh
- b. Programs for the Disabled
 - *0835 530 Individualized Programs in Physical Education for the Handicapped .. 3 sh
 - 0835 531 Practicum in Physical Education for the Handicapped 3 sh
 - 0835 553 Neurological Approach to Motor Learning and Performance 3 sh
 - 0835 557 Perceptual Motor Learning in Physical Education 3 sh
- B. Coaching and Sports Administration
 - *0835 508 Administration and Supervision of Athletics and Coaching 3 sh
 - *0835 554 Orientation in Sports Medicine 3 sh
 - *0835 552 Seminar in Current Problems in Athletics ... 3 sh
 - 0835 555 Biomechanical Analysis of Movement and Sports Skills 3 sh
 - 0835 556 Psychological Basis of Motor Learning and Performance 3 sh
 - **0835 492 Selected Topics in Physical Education 3 sh
- *Required
- **When topic is appropriate to specialization and with advisor's approval.

III. Free Electives

Six semester hours may be selected from the Physical Education offerings or from any discipline outside the field of physical education, provided courses prerequisites are satisfied.

IV. Written Comprehensive Examination

All students are required to write a comprehensive examination during the last semester of their work. The examination is given in March and October. Application cards are available in the Graduate Office and must be filed six weeks before the examination in the office of the Graduate Advisor in Physical Education.

The examination consists of three parts and covers the research area, the area of specialization and a question dealing with general aspects of Physical Education. Students are encouraged to keep class notes, handouts and course texts for review purposes.

Minimum: 34 semester hours

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Course Descriptions

8 0835 503 RESEARCH METHODS IN PHYSICAL EDUCATION 3 sh

An introduction to the theory and methods of historical, descriptive and experimental methods of research in Physical Education. Topics include the nature of research, interpretation of data, design of research and formulation of a research proposal.

Prerequisite: 0835 579 Advanced Measurement and Evaluation in Physical Education.

8 0835 506 PHYSICAL EDUCATION PROGRAMS FOR SECONDARY SCHOOLS 3 sh

A study is made of current trends in activities, programming and scheduling. The implementation of laws requiring co-ed classes, safety factors, motivation and methods of evaluation are studied and examined in depth.

8 0835 508 ADMINISTRATION AND SUPERVISION OF ATHLETICS AND COACHING 3 sh

Underlying principles and desirable practices from the point of view of the administrator and supervisor, and of the person supervised and subjected to administrative policies. Interviewing, observation, conducting conferences and administrative considerations.

8 0835 516 COMPARATIVE PHYSICAL EDUCATION 3 sh

A comparative study of Physical Education to provide insight and greater understanding of programs in other countries. Such factors as the role of Physical Education, the similarities and differences in teacher preparation and the school curriculum between selected countries will be examined and compared in detail.

8 0835 530 INDIVIDUALIZED PROGRAMS IN PHYSICAL EDUCATION FOR THE HANDICAPPED 3 sh

This course will offer a pragmatic approach to the planning and implementation of programs in appropriate environments to meet specific needs of handicapped persons.

8 0835 531 PRACTICUM IN PHYSICAL EDUCATION FOR THE HANDICAPPED 3 sh

Practical experience with mentally retarded, emotionally disturbed, physically handicapped or sensory handicapped persons. Requirement is for 120 hours (including conference time).

Prerequisites: 8 0835 530. Approved of instructor is necessary.

8 0835 550 LITERATURE AND TRENDS IN PHYSICAL EDUCATION 3 sh

Comprehensive survey of books, periodicals and other teaching materials in the field of Physical Education; outstanding authors and current leaders in Physical Education are studied.

8 0835 552 SEMINAR IN CURRENT PROBLEMS IN ATHLETICS (MEN AND WOMEN) 3 sh

The organization, planning and administration of intramural and interscholastic sports programs for men and women. Program development, scheduling, promotion and conduct of the program and personnel selection. Other persistent problems identified by the students will be discussed as will trends in such areas as sports media, coaching and officiating.

8 0835 553 A NEUROLOGICAL APPROACH TO MOTOR LEARNING AND PERFORMANCE 3 sh

The psychology of motor behavior, a neuropsychological approach, integrating neuropsychological and behavioral information as a beginning toward understanding motor behavior.

8 0835 554 ORIENTATION IN SPORTS MEDICINE 3 sh

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries, current developments in the field, and new conditioning concepts and activities for both the athlete and non-athlete. Prerequisites: Courses in kinesiology, physiology of exercise and prevention and care of athletic injuries, or permission of instructor.

8 0835 555 BIOMECHANICAL ANALYSIS OF MOVEMENT AND SPORT SKILLS 3 sh

The examination of internal and external forces that act upon a human body and the effects produced by these forces during the performance of movement and sport skills. Application of techniques for measuring and diagrammatically representing these forces.

8 0835 556 THE PSYCHOLOGICAL BASIS OF MOTOR LEARNING AND PERFORMANCE 3 sh

Psychological principles and research related to physical activity and educational program situations. Continued research and psychological evidence utilized to improve Physical Education methodology.

8 0835 557 PERCEPTUAL MOTOR LEARNING IN PHYSICAL EDUCATION 3 sh

Current theories concerning the inter-relationships of perceptual development and sensory-motor activity. Implications for school Physical Education programs.

8 0835 575 PHILOSOPHICAL AND SOCIOLOGICAL FOUNDATIONS OF SPORT AND PHYSICAL EDUCATION 3 sh

The historical development of modern Physical Education programs. The sociological factors affecting behavior in modern society applied to teaching and coaching situations.

Prerequisite: A course in the history and principles of Physical Education.

8 0835 576 PROGRAMS IN PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL 3 sh

The selection of appropriate Physical Education activities for the elementary programs based on principles of growth and development, and psychological and sociological needs. The relationship of Physical Education to other areas of instructions in the school curriculum, and to the secondary school program.

Prerequisite: Course in Physical Education for elementary school children.

8 0835 577 ADMINISTRATION AND SUPERVISION IN PHYSICAL EDUCATION 3 sh

The role and responsibilities of the administrator in Physical Education. Theories and techniques of administration and management. The nature, purposes and techniques of supervision.

8 0835 579 ADVANCED MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3 sh

An overview of descriptive and inferential statistics, both parametric and nonparametric. Additional topics include analysis and evaluation of tests in Physical Education, grading procedures, and the construction and administration of a test battery.

8 0835 580 INDEPENDENT STUDY IN PHYSICAL EDUCATION 1 sh

An experience in the pursuit of study of topics which may be outside the scope of regular curricular offerings or may be an extension of a course or courses. A student may complete a maximum of three semester hours credit in Independent Study. Completion and approval of Independent Study application form required prior to registration.

8 0835 603 RESEARCH PROJECT 4 sh

Guidance is provided in developing and conducting a Research Project in Physical Education. Each student is required to conduct an investigation of a specific problem and to submit a written report of the completed project to the faculty of the Department of Physical Education. Full year course. Register fall only.

Prerequisite: 8 0835 503.

RECREATION

Although there is no degree or certification program associated with this department, the following graduate courses may be selected by students in other programs who have their advisor's prior approval.

Course Descriptions

8 2103 532 THERAPEUTIC RECREATION 3 sh

The development, supervision and coordination of therapeutic recreation programs in various types of institutional and community settings.

Prerequisites: 2 1220 581 or 2 1220 586.

8 2103 551 PHILOSOPHY, TRENDS AND CURRENT PRACTICES IN RECREATION AND LEISURE SERVICES 3 sh

Presents a survey of the development of recreational philosophies and a study and evaluation of the modern philosophy in America. The organization of recreation in school and community, the importance of leadership, social and cultural implications, economic, governmental, and leisure time influences, and a study of current practices will be undertaken.

8 2103 563 URBAN PARK AND RECREATION MANAGEMENT 3 sh

Administration and policies of park and recreation agencies, including organizational structure, boards and commissions, executive leadership, decision making, personnel finance, public relations, office management, legal provisions, operational research, etc. Management procedures for metropolitan and regional parks including specialized facilities, e.g. golf courses, pools, ice rinks, etc.

PSYCHOLOGY

Chairperson: Dr. Roland Siiter

Graduate Advisors: Dr. Walter Duryea, Dr. Moira LeMay, Dr. Joan Silverstein

There are two entirely separate Master of Arts degrees offered within this department. The MA in Psychology (with a track available in Industrial Psychology) is described immediately below. For the MA in Educational Psychology (tracks in Human Sexuality, and Special Education), see page 176.

MASTER OF ARTS DEGREE IN PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares the student for advanced studies in many psychological fields such as developmental, experimental, learning, personality and counseling, school, and social psychology.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in Psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Psychology Test of the Graduate Record Examination.
3. The Miller Analogies Test.
4. Approval by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

I.	Required Courses	16 sh
2001 510	Methods of Research	3 sh
2001 520	Advanced General Psychology I	3 sh
2001 521	Advanced General Psychology II	3 sh
2001 550	Quantitative and Statistical Methods	3 sh
2001 600	Thesis	4 sh

- II. Elective Courses 12 sh
To be selected with the approval of the Graduate Advisor/Program Director.
- III. Free Electives 6 sh
- IV. Comprehensive Examination: written examination precedes acceptance of thesis outline and an oral examination at completion of thesis.
- V. Department Colloquium: presentation of proposed theses and current research. Graduate students and faculty invited.

Minimum: 34 semester hours

CONCENTRATION IN INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Industrial/Organizational Psychology Program is designed to prepare persons for work in business and industry as professional specialists in the application of psychological knowledge and techniques to the functioning of individuals in organizations. The program draws from many areas of Psychology especially testing, statistics, experimental design, learning, motivation, and interpersonal relations.

REQUIREMENTS FOR THE INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY CONCENTRATION

- I. Required Courses 15 sh
 - 2001 510 Research Methods in Psychology 3 sh
 - 2001 520 Advanced General Psychology I 3 sh
 - 2001 550 Quantitative and Statistical Methods 3 sh
 - 2001 559 Seminar in Industrial/Organizational
Psychology 3 sh
 - 2001 578 Psychological Tests and Measurements 3 sh
- II. Specialization 9 sh
 - 2001 554 Psychology of Business and Industry 3 sh
 - 2001 557 Theory and Application in Consumer
Psychology 3 sh
 - 2001 558 Personnel Psychology 3 sh
 - 2001 570 Psychology of Human Performance 3 sh
 - 2001 571 The Psychology of Organizational Behavior 3 sh
- III. Thesis 4 sh
 - 2001 600 Thesis 4 sh
- IV. Electives: Psychology Maximum of 6 sh
 - 2001 551 Advanced General Psychology II 3 sh
 - 2001 552 General Social Psychology 3 sh
 - 2001 553 Urban Psychology 3 sh
 - 2001 563 Theories of Learning 3 sh

2001 568	Psychology of Group Dynamics	3 sh
2001 579	Seminar in Tests and Measurements	3 sh
2001 581	Motivation	3 sh
2001 582	Behavior Modification	3 sh

V. Electives: Other Departments 6 sh

To be selected with the approval of the Graduate Advisor/Program Director from the Departments of Economics, Business, History, Mathematics, or Sociology.

Minimum: 34 semester hours with Thesis option or 36 semester hours without Thesis option.

MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in Psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

I.	Required Courses	15 sh
	2001 510 Research Methods in Psychology	3 sh
	2001 560 Advanced Educational Psychology	3 sh
	2001 561 Developmental Psychology	3 sh
	2001 578 Psychological Tests and Measurements	3 sh
	2001 660 Seminar in Educational Psychology	3 sh
II.	Educational Foundations	6 sh
	2001 538 Ethnopsychology (also 2202 538)	3 sh
	2001 553 Urban Psychology	3 sh
	2008 579 Community Resources and Youth	3 sh
	2202 534 Anthropology and Education	3 sh
	2202 535 Ethnology	3 sh
III.	Specialization	6 sh
	2001 555 Psychological Aspects of Poverty	3 sh
	2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3 sh

IV.	Electives	6 sh
	To be selected with the approval of the Graduate Advisor/Program Director.	
V.	Comprehensive Examination	
VI.	Thesis (Elective)	4 sh
	Minimum: 33 semester hours	

CONCENTRATION IN HUMAN SEXUALITY

Graduate Advisor: Dr. Moira LeMay

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in Psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE CONCENTRATION IN HUMAN SEXUALITY

I.	Required Courses	12 sh
	2001 510 Research Methods in Psychology	3 sh
	2001 560 Advanced Educational Psychology	3 sh
	2001 561 Developmental Psychology	3 sh
	2001 660 Seminar in Educational Psychology	3 sh
II.	Foundations	6 sh
	2001 446 Today's Woman	3 sh
	2202 535 Ethnology I	3 sh
	2001 538 Ethnopsychology	3 sh
	2001 552 General Social Psychology	3 sh
	2001 553 Urban Psychology	3 sh
	2208 579 Community Resources and Youth	3 sh
III.	Specialization	15 sh
	At least 6 semester hours chosen from the following:	
	2001 542 Workshop in Psychology—Human Sexuality	3 sh
	2001 548 Sex Education in Communities and Agencies	3 sh
	2001 645 Sexual Function and Dysfunction	3 sh
	and 9 additional semester hours chosen from the above and/or	
	2001 567 Abnormal Psychology	3 sh
	2001 568 Psychology of Group Dynamics	3 sh
	2001 580 Personality	3 sh
	2001 593 Clinical Interviewing	3 sh
IV.	Electives	3 sh
	0401 540 Comparative Human Anatomy	4 sh
	2001 573 Physiological Psychology	3 sh
	2001 578 Psychological Tests and Measurements	3 sh
	2208 559 Sociology of Deviance	3 sh
	2208 563 Self and Society	3 sh
	2208 573 The Family as an Institution	3 sh
V.	Comprehensive Examination	

Minimum: 36 semester hours

INTERRELATED GRADUATE PROGRAM IN SPECIAL EDUCATION AND SPECIAL PUPIL SERVICES: TEACHER OF THE BEHAVIORALLY DISTURBED

Graduate Advisor: Dr. Walter R. Duryea

The course of study in the College's interdepartmental programs in Special Education prepares students to teach socially and emotionally maladjusted children. This concentration leads to New Jersey Certification in Teacher of the Handicapped.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in Psychology or equivalent.
2. The Advanced Psychology Test of the Graduate Record Examination is required of applicants who have an undergraduate Psychology major.
3. The Miller Analogies Test.
4. Interview with and approval by the departmental committee.
5. Teaching certification is not required but is desirable.

Note: Minimum residency of one year and one summer is required.

REQUIREMENTS FOR THE PROGRAM IN SPECIAL EDUCATION

- I. Required Courses 12 sh
- 2001 578 Psychological Tests and Measurement 3 sh
- Two of the following:
- 0808 500 Nature of Reading 3 sh
- 0808 511 Case Studies in Reading Difficulties 3 sh
- and either:
- 2001 560 Advanced Educational Psychology or 3 sh
- 2001 563 Theories of Learning 3 sh
- Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.
- II. Core Courses 8 sh
- Required:
- 2001 561 Developmental Psychology 3 sh
- 2001 565 Psychology and Education of Socially
and Emotionally Handicapped Children 3 sh
- 2001 620 Orientation and Observation in Special
Education 2 sh
- Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.

III.	Specialized Requirements	23 sh
2001 540	Teaching and Remediation Techniques	3 sh
2001 541	Adaptive Curriculum and Program Planning	3 sh
2001 545	Seminar in Behavioral Disturbances of Children I	3 sh
2001 546	Seminar in Behavioral Disturbances of Children II	3 sh
2001 553	Urban Psychology	3 sh
2001 663	Independent Study	2 sh
2001 664	Practicum in Teaching Behaviorally Disturbed Children I (Student Teaching)	3 sh
2001 665	Practicum in Teaching Behaviorally Disturbed Children II	3 sh
IV.	Comprehensive Examination	
Note: For candidates not presenting a teaching certificate: 0829 400 Teacher, School and Society is a prerequisite course.		

Minimum: 43 semester hours.

School Psychologist Certification (N.J. State Certificate)

Graduate Advisor: Dr. Joan Silverstein

The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical, and community experiences. In addition, if all appropriate requirements are met, the student in this certification program will receive either an MA in Psychology or an MA in Educational Psychology. See the latest information.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in Psychology including a course in statistics and a laboratory course in experimental psychology.
 2. The Advanced Graduate Record Examination in Psychology or Education.
 3. The Miller Analogies Test.
 4. Two additional letters of recommendation.
 5. Approval by the departmental committee.
- Final application date December 31.

REQUIREMENTS FOR THE SCHOOL PSYCHOLOGIST CERTIFICATION PROGRAM

I.	Educational Foundations (Select 4 courses)	12 sh
	0821 521 Contemporary Educational Thought	3 sh
	2001 538 Ethnopsychology	3 sh
	2001 553 Urban Psychology	3 sh
	2001 555 Psychological Aspects of Poverty	3 sh
	2001 560 Advanced Educational Psychology	3 sh
	2001 660 Seminar in Educational Psychology	3 sh
	2002 535 Ethnology I	3 sh
	2208 565 Sociology of Youth	3 sh
II.	Education of the Handicapped	6 sh
	2001 564 Psychology and Education of the Physically and Mentally Handicapped	3 sh
	2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3 sh
III.	Testing and Clinical Techniques	24 sh
	2001 510 Research Methods in Psychology	3 sh
	2001 550 Quantitative and Statistical Methods	3 sh
	*2001 574 Individual Intelligence Testing	3 sh
	*2001 575 Projective Techniques I	3 sh
	*2001 576 Projective Techniques II	3 sh
	*2001 578 Psychological Tests and Measurements	3 sh
	2001 590 Diagnostic Case Studies	3 sh
	2001 593 Clinical Interviewing	3 sh
	2001 661 Practicum in School Psychology	3 sh
	*2001 662 School Psychologist Externship	3 sh
IV.	Personality and Behavioral Development	12 sh
	2001 561 Developmental Psychology	3 sh
	2001 563 Theories of Learning	3 sh
	2001 567 Abnormal Psychology	3 sh
	2001 573 Physiological Psychology	3 sh
	2001 580 Personality	3 sh
	2001 582 Behavior Modification	3 sh

V. Electives: Select courses to balance the program, with permission of graduate advisor

*Admission to the course is subject to approval of graduate coordinator.

Minimum: 60 semester hours

PSYCHOLOGY

Course Descriptions

- T 2001 503 LANGUAGE AND COMMUNICATION 3 sh**
Influence of psychology, linguistics and biology on the learning and use of language. Psycholinguistics, language and thought, language disorders, development of communication, dialect differences.
- T 2001 510 RESEARCH METHODS IN PSYCHOLOGY 3 sh**
Non-laboratory introduction to correlational and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the educational and general psychology programs.
- T 2001 520 ADVANCED GENERAL PSYCHOLOGY I 3 sh**
Learning and motivation (first half term), sensation and perception (second half term). Open to matriculated candidates in Psychology programs only. Must be taken during the first year of the program.
- T 2001 521 ADVANCED GENERAL PSYCHOLOGY II 3 sh**
Personality and abnormal psychology (first half term), social psychology (second half term). Open to matriculated candidates in psychology programs only, or with permission of instructor.
- T 2001 538 ETHNOPSYCHOLOGY 3 sh**
Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition.
- T 2001 540 TEACHING AND REMEDIATION TECHNIQUES 3 sh**
WITH BEHAVIORALLY DISTURBED CHILDREN
Teaching and remediation of basic skills with behaviorally disturbed students; methods and materials in reading, mathematics, and language arts.
- T 2001 541 ADAPTIVE CURRICULUM AND PROGRAM 3 sh**
PLANNING FOR BEHAVIORALLY DISTURBED CHILDREN
Modifying the school curriculum, program planning, and behavioral management options for behaviorally disturbed students.
- T 2001 542 WORKSHOP IN PSYCHOLOGY-HUMAN 3 sh**
SEXUALITY
Psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists lecture and participate in group discussions: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and sex role, sex and the self-concept.

T 2001 545 SEMINAR IN BEHAVIORIAL DISTURBANCES 3 sh
OF CHILDREN I

Survey and analysis of educational strategies and models for behaviorally disturbed students, e.g. psycho-educational, behavioral, psychodynamic. Day-to-day, student-teacher adjustments and behavioral management. Integrated with concurrent practicum. Open only to matriculated students.

T 2001 546 SEMINAR IN BEHAVIORIAL DISTURBANCES 3 sh
OF CHILDREN II

Selected issues, research and theory in education and related services to behaviorally disturbed students, involving and working with family; therapeutic techniques and processes related to student personality and behavior disorders, technology, and innovation and accountability.

Prerequisites: T 2001 545, Instructors Permission, T 2001 665.

T 2001 547 WOMAN: A CROSS-CULTURAL PERSPECTIVE 3 sh

The physiological and psychological aspects of women studied cross-culturally and their implications for today's society will be the focus of this course. Morphological and psychological developments from conception to death in various cultures; inferences about the roles of women in our society will be made.

T 2001 548 SEX EDUCATION IN COMMUNITIES 3 sh
AND AGENCIES

Techniques for working with communities and agencies in setting up courses and offering materials for community programs in sex education.

T 2001 549 PSYCHOLOGY OF THE ADULT LEARNER 3 sh

An overview of the developmental processors underlying adult behavior. Understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting learning and counseling procedures.

T 2001 550 QUANTITATIVE AND STATISTICAL METHODS 3 sh

Principles and techniques of data analysis and experimental design in psychology, estimation of parameters, and hypothesis testing. Open only to matriculated students.

Prerequisites: Permission of instructor and a qualifying examination in basic statistics.

T 2001 552 GENERAL SOCIAL PSYCHOLOGY 3 sh

Theory, methodology and research findings. Biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

Prerequisite: One course in psychology.

T 2001 553 URBAN PSYCHOLOGY 3 sh

Theoretical and empirical literature on cities and those who live in and near them. Interaction of individual psychological factors and urban structures. Problems and issues related to crowding and density, poverty, housing, urban planning, neighborhoods, race relations.

Prerequisite: One course in psychology.

T 2001 554 PSYCHOLOGY OF BUSINESS AND INDUSTRY 3 sh
Application of psychological findings to problems encountered in business and the professions.

T 2001 555 PSYCHOLOGICAL ASPECTS—POVERTY 3 sh
Relationships between individual and group psychological factors and poverty as a major domestic issue. Critical approaches to psychological theories of poverty.

T 2001 556 ENVIRONMENTAL PSYCHOLOGY 3 sh
Interaction of the physical environment with human behavior. Population density and crowding; environmental perceptions, historic environmental attitudes; architecture and behavior; unusual environments; man and the natural world.

T 2001 557 THEORY AND APPLICATION IN CONSUMER PSYCHOLOGY 3 sh

The theory and assessment of consumer behaviors utilizing fundamental psychological principles will be emphasized, and a field research project will be undertaken.

Prerequisite: Course in statistics.

T 2001 558 PERSONNEL PSYCHOLOGY 3 sh

This course focuses on the application of psychological methods and knowledge to the personnel functions of industry. Emphasis is on major relevant social, economic and legislative changes affecting employment including civil rights, the women's movement, and fairness in employment testing.

T 2001 559 SEMINAR IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3 sh

This course covers the most recent advances, issues and problems in the field through the use of technical literature, legislation, judicial decisions, research techniques and consulting practice to provide the student with knowledge, techniques and skills for application. Each student presents a technical article, participates in a debate and reviews a topic in a term paper.

Prerequisites: T 2001 554 or T 2001 571.

T 2001 560 ADVANCED EDUCATIONAL PSYCHOLOGY 3 sh

Focus on the learner and the learning process in school situations. Motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.

T 2001 561 DEVELOPMENTAL PSYCHOLOGY 3 sh

Theoretical issues and research findings on psychological processes from pre-natal life through adulthood.

T 2001 562 DYNAMICS OF HUMAN BEHAVIOR 3 sh

Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.

T 2001 563 THEORIES OF LEARNING 3 sh

Review of current learning theory and research and the implications for education.

Prerequisite: Two courses in Psychology or Permission of Graduate Advisor.

T 2001 564 PSYCHOLOGY AND EDUCATION OF 3 sh
PHYSICALLY AND MENTALLY HANDICAPPED
CHILDREN

Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and administrators who work with such children or who wish to prepare for school and community leadership in developing facilities.

Prerequisite: T 2001 561.

T 2001 565 PSYCHOLOGY AND EDUCATION OF 3 sh
SOCIALLY AND EMOTIONALLY HANDICAPPED
CHILDREN

Practice and problems in education of socially and emotionally handicapped children.

Prerequisite: T-2001 561.

T 2001 566 PSYCHOLOGY AND EDUCATION OF THE 3 sh
GIFTED

Picture of bright and gifted young people in contemporary American life. Various practices involved in education, as well as the psychological characteristics of this group and socio-emotional development.

Prerequisites: T 2001 561, Instructors Permission.

T 2001 567 ABNORMAL PSYCHOLOGY 3 sh

Models and selected research in psychopathology, physical illness, psychosomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.

Prerequisite: T 2001 580.

T 2001 568 PSYCHOLOGY OF GROUP DYNAMICS 3 sh

Theories of group dynamics and illustrative application to industrial, marital, political, interracial and professional life; personal participation by the student in a group interactive process. Open only to matriculated students.

T 2001 570 THE PSYCHOLOGY OF HUMAN 3 sh
PERFORMANCE

Application of psychological techniques to the problems encountered at the interface between human beings and modern technology. Workplace design, computer systems, transportation systems, man in space, control and display design.

T 2001 571 ORGANIZATIONAL PSYCHOLOGY 3 sh

This course closely examines the psychological aspects of organizational functioning. Areas to be covered include motivation, job satisfaction, leadership, organizational development, and organizational change. All areas will be dealt with from both a theoretical and a practical point of view.

T 2001 573 PHYSIOLOGICAL PSYCHOLOGY 3 sh

Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuroendocrine integrating relationships in the more complex behaviors.

Prerequisites: One course in experimental psychology, one in biology and permission of instructor.

T 2001 574 INDIVIDUAL INTELLIGENCE TESTING 3 sh

Administration, scoring and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet scale, the Wechsler intelligence scale for children, and the Wechsler Adult Intelligence scale.

Prerequisite: Approved certification candidacy in the School Psychology program.

T 2001 575 PROJECTIVE TECHNIQUES I 3 sh

Basic instruments of projective testing, particularly the Rorschach and thematic apperception test, from the standpoints of basic research and the mechanics of administration and scoring.

Prerequisite: Approved certification candidacy in the School Psychology program.

T 2001 576 PROJECTIVE TECHNIQUES II 3 sh

Moves from the theoretical to the practical application of projective tests. Student required to administer, score and analyze individual cases. Major emphasis on the Rorschach and thematic apperception test.

Prerequisite: T 2001 575.

T 2001 578 PSYCHOLOGICAL TESTS AND MEASUREMENTS 3 sh

Survey of theory, construction and application of psychological tests. Open only to matriculated students.

Prerequisites: T 2001 510, Instructors Permission, or T 2001 550.

T 2001 580 PERSONALITY 3 sh

Major theories and clinical and experimental findings.

Prerequisites: T 2001 561 or Instructors Permission.

T 2001 581 MOTIVATION 3 sh

Nature and development of motives and their role in behavior.

Prerequisites: T 2001 520 or Instructor's Permission.

T 2001 582 BEHAVIOR MODIFICATION 3 sh

Experimental findings, design of experiments, and practice in the application of learning principles to changing behavior. Students will perform some experiments.

Prerequisite: T 2001 563.

- T 2001 583 SENSATION AND PERCEPTION 3 sh**
Sensory and perceptual processes. Includes: visual, auditory and other stimuli, psychophysics and the development of perceptual abilities and the effects of learning motivation and set on perceptual processes.
Prerequisites: T 2001 520 or Instructor's Permission.
- T 2001 585 PSYCHOANALYTIC THEORY 3 sh**
A developmental analysis of the original Freudian concepts, and their use in psychoanalysis. The course will also include later evolutionary developments by noted analysts, including such theorists as Horney, Sullivan, Reik, Adler, Jung, Kris, and others.
Prerequisites: T 2001 567, T 2001 580, Instructors Permission.
- T 2001 590 DIAGNOSTIC CASE STUDIES I 3 sh**
Learning to use diagnostic material and to write up diagnostic findings. The unique value of various diagnostic tools and the criteria for selection in relation to the present school problem.
Prerequisite: Approved candidacy in the School Psychology certification program.
Prerequisites: T 2001 574, T 2001 575.
- T 2001 591 DIAGNOSTIC CASE STUDIES II 3 sh**
Course continues along the procedures described in 2001 590. In addition, the students are required to present reports on their diagnostic findings of individual cases.
Prerequisite: T 2001 590.
- T 2001 592 SPECIAL DIAGNOSTIC TECHNIQUES 3 sh**
Designed for students who are already competent in basic individual testing techniques. Specialized tests and techniques; evaluation of handicapped children.
Prerequisites: T 2001 574, Instructors Permission, T 2001 575.
- T 2001 593 CLINICAL INTERVIEWING 3 sh**
Clinical interviewing under rigid supervision as an essential part of a practicum experience. Diagnostic features of interviewing and interpersonal relationships between the psychologist and the client.
Prerequisites: Permission of the Graduate Advisor and instructor.
- T 2001 600 THESIS I 3 sh**
Individual research under faculty direction. Student presents thesis proposal at a department colloquium and takes an oral examination upon completion of the thesis.
Prerequisite: Permission of Thesis Advisor.
- T 2001 620 ORIENTATION AND OBSERVATION IN SPECIAL EDUCATION 2 sh**
Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers and special guest lectures.
Prerequisite: Permission of instructor.

- T 2001 645 SEXUAL FUNCTION AND DYSFUNCTION 3 sh**
Seminar in current trends and practices in sexual therapy. Historical material and research studies in the area of sexual function and dysfunction, from Freud to Masters and Johnson.
Prerequisites: T 2001 542, T 2001 567.
- T 2001 659 SPECIAL TOPICS SEMINAR IN PSYCHOLOGY 3 sh**
This is an advanced-level graduate course intended to provide students with an in-depth view of important theoretical and methodological issues in various areas of Psychology. The course is designed to permit faculty members with particular interests and expertise to provide students with a comprehensive analysis of a contemporary issue (or related issues) in Psychology. Seminar discussions will aim toward identification and clarification of theoretical issues in a particular field and at the integration of these issues.
Prerequisites: Completion of 15 or more credits in one's program; or permission of instructor.
- T 2001 660 CURRENT TOPICS IN EDUCATIONAL PSYCHOLOGY 3 sh**
Opportunity to investigate and apply the techniques of research in the psychology field.
Prerequisites: 2001 510, 560 and matriculation in Psychology; T 2001 510, T 2001 560.
- T 2001 661 PRACTICUM IN SCHOOL PSYCHOLOGY 3 sh**
Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.
Prerequisites: Approved certification candidacy in School Psychology program and permission of Graduate Advisor.
- T 2001 662 SCHOOL PSYCHOLOGY EXTERNSHIP 3 sh**
Students serve as apprentice psychologists in cooperating school districts or agencies. A fully certified school psychologist, employed in the cooperative district, or an appropriate clinician and the college supervisor, make periodic visits and conduct a series of seminars to be scheduled on campus.
Prerequisites: Approved certification candidacy in School Psychology program and permission of Graduate Advisor.
- T 2001 663 INDEPENDENT STUDY 1-3 sh**
Under faculty supervision, involving readings, field experiences, or research outside of thesis. Student selects one area per semester for 1, 2, or 3 s.h. maximum 3 s.h.
Prerequisites: Permission from Graduate Advisor and instructor prior to registration. Open only to matriculated Psychology majors.
- T 2001 664 PRACTICUM IN TEACHING BEHAVIORALLY DISTURBED CHILDREN I 3 sh**
Experience in teaching seriously and moderately emotionally disturbed children. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.
Prerequisite: Permission of the program coordinator.

T 2001 665 PRACTICUM IN TEACHING BEHAVIORALLY DISTURBED CHILDREN II 3 sh

Continues the experience described in 2001 664, open only to matriculated majors in the program for the teaching of emotionally disturbed children who have the program coordinator's approval.

T 2001 670 INTRODUCTION TO PSYCHOTHERAPY 3 sh

Theories, research and practices in individual and group psychotherapy, introduction to approaches to treatment of emotional maladjustment and behavioral pathology.

Prerequisite: Permission of instructor.

T 201 672 PRACTICUM IN PSYCHOTHERAPY 3 sh

Supervised practice in individual and group counseling and psychotherapy, and personal growth through self-understanding.

Prerequisites: T 2001 670, Permission of Instructor.

SOCIAL SCIENCES

MASTER OF ARTS DEGREE REQUIREMENTS

The Master of Arts program in Social Sciences is designed to accomplish four main objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the Social Sciences and History.
2. To acquaint the student with the interrelatedness of these various fields as well as their relationship to other disciplines.
3. To familiarize students with the particular methodologies and specialized problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, the program offers advanced study in Anthropology, Economics, Geography, History, Political Science, Sociology, and Urban Studies. Degree candidates do a major portion of their work and prepare for a final comprehensive examination in one of these concentrations. The program also provides flexibility for interdisciplinary study in certain areas and is designed mainly for students who wish to work toward the degree on a part-time basis.

While teachers seeking to keep up-to-date in their fields or preparing for specialized secondary school subjects still constitute an important segment of the graduate student body, degrees in the Social Sciences and History are increasingly being pursued by (a) individuals seeking to

change fields or professions, (b) individuals planning career advancement, and (c) individuals returning to the academic world after a hiatus of some time. A significant number of graduates of the program have pursued doctoral work successfully at major universities. The program's flexibility has also been utilized to enhance careers in business, government, politics, community service agencies, museum work, urban planning, etc. Student constituencies are able to achieve their respective purposes by following one of the tracks or specializations within the program.

Recognition of changing demands acts as a spur to further developments in the program. Thus some revision in the structure of the program's concentrations is currently being planned, and applied tracks in Anthropology and Sociology have been projected. Interested candidates should contact the chairperson of the appropriate department for information.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission to the graduate program at Montclair State, candidates must present an undergraduate record showing a total of at least 30 semester hours in the Social Sciences and/or History. For candidates with weak undergraduate preparation in the field of concentration, prerequisite courses, not for graduate credit, may be required.

ANTHROPOLOGY CONCENTRATION

Graduate Advisor: Dr. Bertha Quintana

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|------|--|----------|
| I. | Required Course | 3 sh |
| | *2202 535 Ethnology | 3 sh |
| | *Anthropology elective may be substituted for candidates with proper equivalent course experience. | |
| II. | Anthropology Electives | 12-15 sh |
| | 2202 530 Anthropology of Institutional Life | 3 sh |
| | 2202 532 Anthropology of Cities | 3 sh |
| | 2202 533 Spanish Cultural Influences in the U.S. | 3 sh |
| | 2202 534 Transmission of Culture | 3 sh |
| | 2202 536 Cultural Diversity | 3 sh |
| | 2202 537 Responding to Cultural Change | 3 sh |
| | 2202 538 Ethnopsychology | 3 sh |
| | 2202 539 Prehistoric North America | 3 sh |
| | 2202 540 Social Anthropology and History | 3 sh |
| | 2202 541 Culture and Thought | 3 sh |
| | 2202 547 Women: A Cross-Cultural Perspective | 3 sh |
| | 2202 601 Independent Anthropological Research | 3 sh |
| III. | Related Social/Behavioral Science and/or History Electives
(Outside concentration area) | 6-9 sh |
| IV. | Free Electives | 6 sh |

- V. Reading Seminar and Comprehensive Examination 2 sh
 2202 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600, Thesis (4 sh) in lieu of the comprehensive examination.

Minimum: 32 semester hours

Modified Concentration

(Recommended for students with undergraduate majors or minors in anthropology, or equivalent interdisciplinary backgrounds.)

With the approval of the Graduate Advisor, qualified students may develop modified concentrations in applied anthropology, cross-cultural studies, or ethnopsychology. Independent Anthropological Research (2202 601) and Reading Seminar and Comprehensive Examination (2202 603) are required courses for students in this category, together with courses appropriate to student needs and interests.

A maximum of 9 hrs. of senior-graduate courses may be elected with permission of the Graduate Advisor. Course descriptions may be found in the current undergraduate catalog: e.g.,

- 2202 406 Anthropology of Aging and the Aged
- 2202 411 Archaeological Field Methods
- 2202 412 Cultural Ecology
- 2202 413 Medical Anthropology
- 2202 420 Apprenticeship in Anthropology

ECONOMICS CONCENTRATION

Graduate Advisor: Dr. Harold D. Flint

The purpose of the concentration in Economics is to assist students to acquire competency in the economic analysis of specialized fields with emphasis on theory and quantitative methodology, thereby enabling more effective participation in the formulation, evaluation, and implementation of public decision making. Candidates interested in Economics as an area of concentration should contact the Graduate Advisor or the chairperson of the Department for information.

- I. Required for all but undergraduate Economics majors:
 - 2204 501 Economics Analysis 3 sh
- II. Economics Electives 9-12 sh
 - 2204 502 Financial Institutions and Monetary Policy 3 sh
 - 2204 503 Economic Problems of the Third World 3 sh
 - 2204 508 Economics of Public Management 3 sh
 - 2204 510 Urban Economics: Problems and Policies 3 sh
 - 2204 533 Corporate and International Financial Markets .. 3 sh
 - 2204 540 Development in Economic Education 3 sh
 - 2204 541 Foundations of Contemporary Economic Thought 3 sh
 - 2204 542 Economic Fluctuations and Forecasting 3 sh

	2204 543	United States in the World Economy	3 sh
	2204 544	Government and Business	3 sh
	2204 545	Economics of Labor	3 sh
III.		Related Social/Behavioral Science and/or History	6-9 sh
IV.		Free Electives	6 sh
V.		Reading Seminar and Comprehensive Examinations	2 sh
	2204 603	Independent study in preparation for written examination given in March and October.	

Minimum: 32 semester hours

GEOGRAPHY CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

It is highly recommended that candidates for the concentration in geography have an undergraduate major or minor in Geography or its equivalent from an accredited college or university. Candidates without this background may be required to make up deficiencies in their undergraduate programs.

I.	Required Courses	6 sh
	2206 520 Landscapes in Transition	3 sh
	2206 521 Research Methods	3 sh
II.	Geography Electives	9-12 sh
	2206 501 Air Resource Management	3 sh
	2206 502 Problems in Economic Geography	3 sh
	2206 503 Culture Regions	3 sh
	2206 504 Pro-Seminar	3 sh
	2206 505 Human Environment	3 sh
	2206 509 Water Resource Management	3 sh
	2206 510 Urban Systems Analysis	3 sh
	2206 511 Urban and Regional Planning	3 sh
	2206 512 Transportation Analysis and Planning	3 sh
	2206 550 Urban Studies and Policy Analysis	3 sh
	2206 551 The Metropolitan Economy	3 sh
	2206 603 Reading Seminar in Geography and Urban Studies	2 sh
	2206 610 Urban Studies Seminar	3 sh

Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested or acceptable courses are as follows:

	2206 0413	Geography of the Middle East	3 sh
	2206 0452	Geohydrology	3 sh
	2206 0409	Urbanization in World Perspective	3 sh
	2206 0423	Culture and Resource Utilization	3 sh
III.		Related Social/Behavioral Science and/or History Electives	6-9 sh
IV.		Free Electives (outside the area of concentration)	6 sh

- V. Reading Seminar and Comprehensive Examination 2 sh
 2206 603 Independent study in preparation for written examination given in March and October. Candidates may register for Departmental thesis (600) 4 sh in lieu of comprehensive examination.

Minimum: 32 semester hours

URBAN STUDIES CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

- I. Required Courses 9 sh
 2206 550 Urban Studies and Policy Analysis 3 sh
 2206 551 The Metropolitan Economy 3 sh
 *2206 610 Urban Studies Seminar 3 sh
 *To be taken only after the candidate has completed 2206 550, 551 and 9 semester hours of Urban Studies electives.
- II. Urban Studies Elective 9 sh
 2206 504 Pro Seminar 3 sh
 2206 510 Urban Systems Analysis 3 sh
 2066 511 Urban and Regional Planning 3 sh
 2206 512 Transportation Analysis and Planning 3 sh
 *2206 521 Research Methods 3 sh
 2202 0532 Anthropology of Cities 3 sh
 2204 0508 Economics of Public Management 3 sh
 2204 0510 Urban Economies: Problems and Policies 3 sh
 2205 0518 Urban History: National Trends in North Jersey
 Cities 3 sh
 2207 0501 Public Administration and Public Policy 3 sh
 2001 0553 Urban Psychology 3 sh
 2201 0555 Psychological Aspects of Poverty 3 sh
 2208 0566 The Metropolitan Community 3 sh
 2208 0567 Power and Social Stratification 3 sh
 2208 0573 Sociology of the City Sub-Areas 3 sh
 2208 0574 Sociology of Cultural and Ethnic Groups 3 sh
 2208 0577 Sociology of Poverty in the U.S. 3 sh
 2208 0579 Community Resources and Youth 3 sh

*Recommended

Candidates for the Master of Arts degree may earn 6 sh of credit in 400 level or senior year undergraduate courses. Suggested courses are the following:

- 2206 0427 Housing in America 3 sh
 2206 0462 People and Cities: Comparative Urban Studies .. 3 sh
 2206 0411 Problems in Urban Geography 3 sh
 2206 0428 Planning for People 3 sh
- III. Related Social/Behavioral Sciences and/or History
 Electives 6 sh
- IV. Free Electives 6 sh

- V. Reading Seminar and Comprehensive Examination 2 sh
 2206 603 Independent study in preparation for written examination given in March and October. Candidates may register for Departmental thesis (600) 4 sh in lieu of comprehensive examination.

Minimum: 32 semester hours

HISTORY CONCENTRATION

Graduate Advisor: Dr. Richard J. Barker

- I. Required Courses 3 sh
 2205 501 New Interpretations in History 3 sh
 or
 2205 502 History and the New Social Studies 3 sh
- II. History Electives 12-15 sh
 2205 501 New Interpretations in History 3 sh
 2205 502 History and the New Social Studies 3 sh
 2205 511 Seminar in American Colonial History 3 sh
 2205 512 The American Revolution, 1763-87 3 sh
 2205 513 Problems of the New Nation, 1789-1828 3 sh
 2205 514 Crisis American Nationalism, 1828-1876 3 sh
 2205 517 Age of Franklin D. Roosevelt 3 sh
 2205 518 Urban History: National Trends in N.J. Cities ... 3 sh
 2205 519 America Since 1945 3 sh
 2205 520 United States—Far Eastern Relations 3 sh
 2205 521 Civil War and Revolutions in Chinese History 3 sh
 2205 522 Revolutionary Russia, 1905-21 3 sh
 2205 523 History of Soviet Diplomacy 3 sh
 2205 524 History of American Business Leaders 3 sh
 2205 525 History of American Labor, 1870-1970 3 sh
 2205 526 The Industrialization of America, 1865-1900 3 sh
 2205 527 The Industrialization of Europe 3 sh
 2205 529 Europe of the Dictators, 1919-39 3 sh
 2205 532 Modernization in Japanese Cultural History 3 sh
 2205 533 French Revolution and Napoleon 3 sh
 2205 537 19th Century European Intellectual History 3 sh
 2205 540 Europe as a World Civilization 3 sh
 2205 541 Asian Civilization—Comparative Cultural
 History 3 sh
- III. Related Social/Behavioral Science Electives 6-9 sh
- IV. Free Electives 6 sh
- V. Reading Seminar and Comprehensive Examination 2 sh
 2205 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination.

Minimum: 32 semester hours

POLITICAL SCIENCE CONCENTRATION

Graduate Advisor: Dr. George T. Menake

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|------|--|----------|
| I. | Required Courses | 3 sh |
| | 2207 502 Modern Political Analysis | 3 sh |
| II. | Political Science Electives | 12-15 sh |
| | 2207 501 Public Administration and Public Policy | 3 sh |
| | 2207 512 Origin and Development of the Constitution | 3 sh |
| | 2207 521 History of Political Thought | 3 sh |
| | 2207 522 Great Britain and the Commonwealth | 3 sh |
| | 2207 523 Politics of Developing Areas | 3 sh |
| | 2207 524 The Third World in the International System | 3 sh |
| | 2207 551 Contemporary Constitutional Law | 3 sh |
| | 2207 552 The President and Congress | 3 sh |
| | 2207 553 The Federal Judicial Process | 3 sh |
| | 2207 554 American Political Thought | 3 sh |
| III. | Related Social/Behavioral Sciences and/or History | |
| | Electives | 6-9 sh |
| IV. | Free Electives | 6 sh |
| V. | Reading Seminar and Comprehensive Examination | 2 sh |
| | 2207 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination. | |

Minimum: 32 semester hours

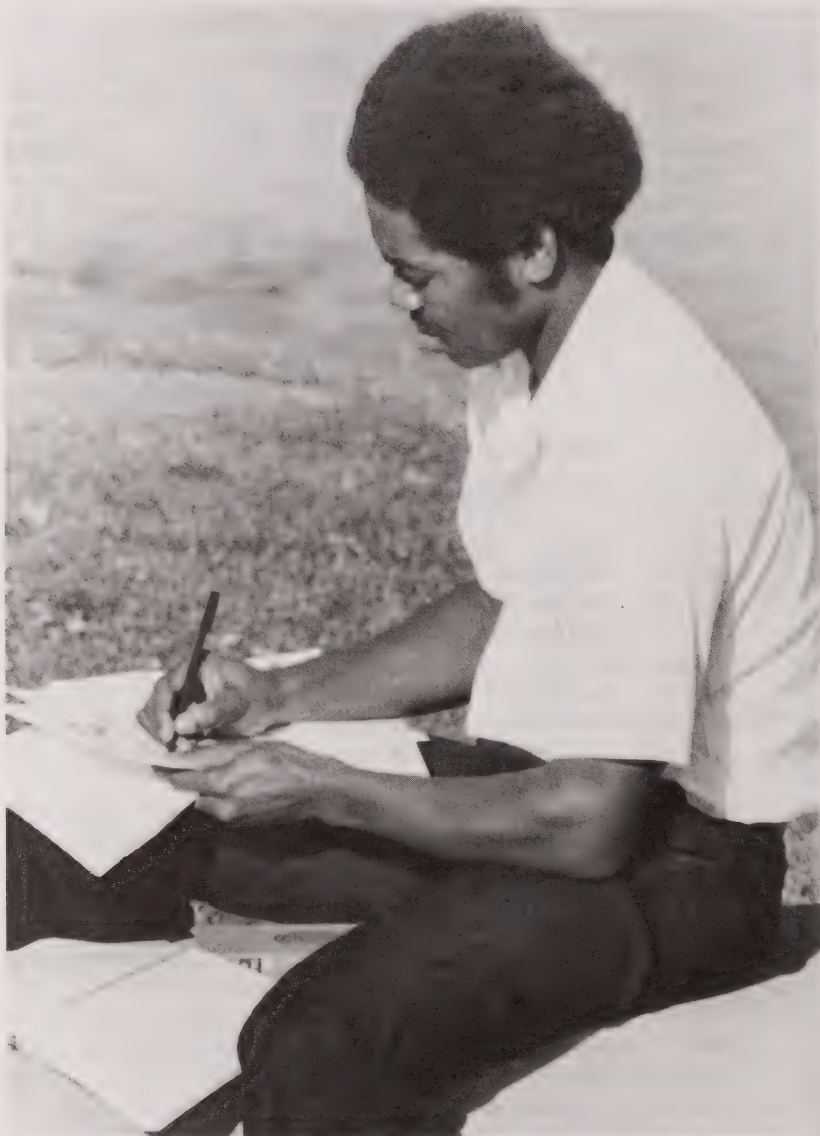
SOCIOLOGY CONCENTRATION

Graduate Advisor: Dr. Barbara Chasin

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|-----|---|-------|
| I. | Required Courses | 9 sh |
| | 2208 560 Sociological Theory | 3 sh |
| | 2208 568 Seminar: Sociological Research Methods I | 3 sh |
| | 2208 571 Seminar: Sociological Inquiry | 3 sh |
| II. | Sociology Electives | 12 sh |
| | 2208 559 Sociology of Deviance | 3 sh |
| | 2208 561 The Construction of Social Theory | 3 sh |
| | 2208 562 Social Change | 3 sh |
| | 2208 563 Self and Society | 3 sh |
| | 2208 564 Social Planning | 3 sh |
| | 2208 565 Sociology of Youth | 3 sh |
| | 2208 566 The Metropolitan Community | 3 sh |
| | 2208 567 Power and Social Stratification | 3 sh |
| | 2208 569 Seminar: Sociological Research Methods II | 3 sh |
| | 2208 572 Selected Problems in Sociology | 3 sh |
| | 2208 573 Sociology of City Sub-Areas | 3 sh |
| | 2208 574 Sociology of Ethnic Relationships | 3 sh |
| | 2208 575 Sociology of Voluntary Membership Institutions | 3 sh |
| | 2208 576 The Family as an Institution | 3 sh |
| | 2208 577 Sociology of Poverty in the U.S. | 3 |

2208 579	Community Resources and Youth	3 sh
2208 580	The Sociology of Higher Education	3 sh
2208 581	Sociological Perspectives on Health & Medicine ..	3 sh
III.	Related Social/Behavioral Science and/or History Electives ..	6 sh
IV.	Free Electives	6 sh
V.	Reading Seminar and Comprehensive Examination	2 sh
2208 603	Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 sh) in lieu of the comprehensive examination.	

Minimum: 32 semester hours



SOCIAL SCIENCES

Anthropology Course Descriptions

J 2202 530 ANTHROPOLOGY OF INSTITUTIONAL LIFE 3 sh

An analysis of the relationship between culture, society, personality and institutional life. Emphasis is placed on the relationship between formal organizations and public interests.

J 2202 532 ANTHROPOLOGY OF CITIES 3 sh

A cross-cultural investigation of urbanism and urbanization. Utilizing anthropological monographs, the comparative method will be employed to discover recurrent patterns of adaptation to urban environments.

J 2202 533 SPANISH CULTURAL INFLUENCES IN THE UNITED STATES 3 sh

The cultural heritage of Spanish-speaking America. Utilizing anthropological concepts, problems of adjustment and educational implications are emphasized.

J 2202 534 THE TRANSMISSION OF CULTURE 3 sh

Focuses on formal and informal processes of cultural transmission and renewal. Emphasis on the relationship of individuals to their cultures and problems of generational continuity and cultural revitalization. Anthropological strategies for educational research are explored.

Prerequisite: Previous course work in Anthropology, Psychology, or Education.

J 2202 535 ETHNOLOGY 3 sh

A graduate introduction to the "Science of Peoples, Their Cultures and Life Histories as Groups." Ethnographic and ethnological methodology and theory. Primarily for graduate students with limited or no previous course work in cultural anthropology.

J 2202 536 CULTURAL DIVERSITY 3 sh

Descriptive, historical and theoretical anthropological works provide the basis for studying likenesses and differences among folk and urban cultures, their historic development, and interrelationships between differing aspects of culture.

J 2202 537 RESPONDING TO CULTURE CHANGE 3 sh

Emphasis on the dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and/or stimulate culture change are considered in transcultural perspective. A unit of study is devoted to the psycho-cultural consequences of rapid change.

Prerequisite: An introductory course in Anthropology or instructor's permission.

J 2202 538 ETHNOPSCHOLOGY**3 sh**

Interdisciplinary course about convergencies of theoretical and methodological concepts from Anthropology and Psychology. Personality in culture, cultural influences on cognition, personality under stress, cultural psychiatry, and creativity in culture. Interdisciplinary field work.

Prerequisite: Previous course work in Anthropology, Psychology, or permission of the instructor.

J 2202 539 PREHISTORIC NORTH AMERICA**3 sh**

General background in native American archaeology, and theory and method in this subdiscipline. Selected culture areas and problems relating to time depth, cultural interaction, and the nature of archaeological evidence north of Mexico.

J 2202 540 SOCIAL ANTHROPOLOGY & HISTORY**3 sh**

The relationship of social anthropology to history. The study of history as a cultural system, sources and methods utilized in reconstructing the histories of preliterate societies, and the inarticulate sectors in complex societies.

J 2202 541 CULTURE AND THOUGHT**3 sh**

How different peoples organize and use their cultures; data from formal ethnography, semantic analysis, ethnoscience and componential analysis for purposes of studying culture and building culture theories.

Prerequisite: Previous course work in ethnology, ethnopsychology or linguistics.

J 2202 547 WOMAN: CROSS-CULTURAL PERSPECTIVE**3 sh**

Physiological and psychological aspects of women studied cross-culturally, and their implications for contemporary society. Morphological and psychological developments from conception to death in various cultures, inferences about the roles of women in American society.

J 2202 601 INDEPENDENT ANTHROPOLOGICAL RESEARCH**3 sh**

Under faculty guidance, the student works independently throughout the academic year on a delimited problem in anthropology. Course includes presentation of proposal, execution and write-up of research, and oral defense of findings.

Prerequisites: Permission of the Graduate Advisor and Instructor.

J 2202 603 READING SEMINAR IN ANTHROPOLOGY**2 sh**

Required of all M.A. candidates concentrating in Anthropology. Directed independent study in preparation for 3-hour comprehensive examination.

Economics Course Descriptions

C 2204 501 ECONOMIC ANALYSIS**3 sh**

The resource allocation and distribution of income implications of a market-oriented economy operating under various degrees of competition. Also analyzed are the determinants of consumer and market demand and the theoretical cost structure of firms.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3 sh

This course analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems, both theoretical and applied, in the area of monetary policy.

Prerequisite: C 2204 501.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3 sh

A survey of major economic problems of the Third World, examination of the economic structure of developing countries and of general theories of economic development, critical evaluation of various policy alternatives for their development, analysis of possible economic relationships between First and Second Worlds with the Third World.

Prerequisite: C 2204 501.

C 2204 505 AGGREGATE ECONOMICS 3 sh

This course develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models, the course examines current research and reviews the economy's recent macroeconomic performance.

Prerequisite: C 2204 501.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3 sh

Application of capital theory in the decision-making processes of government, and alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: C 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS & POLICY 3 sh

The location of economic activities, the growth of cities and the origins of some urban problems in a market economy. Also discussed are the problems of location and congestion due to agglomeration and non-market phenomena.

Prerequisite: C 2204 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3 sh

The course will discuss the economic theories and problems which confront business institutions when dealing in international financial markets. It will analyze the various market instruments and how a corporation may use them.

Prerequisite: C 2204 501.

C 2204 540 DEVELOPMENT IN ECONOMIC EDUCATION 2 sh
Insights into recent experiments incorporating economic education into the curriculum, K-12; restructuring of curriculum to promote economic understanding. Materials, written and audio-visual, designed for economic education. Guest lectures supplement the experience of the course instructor.

Prerequisites: Permission of Instructor; C 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3 sh

Antecedents of current economic theory, economics as a cumulative science, the works of the creative economists, and the uses and limitations of economic theory.

Prerequisites: C 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS AND FORECASTING 3 sh

Theories to account for variations in business activity; macroeconomic models and other forecasting approaches; economic fluctuations in the United States, proposals for reducing fluctuations, Harrod Domar model and other modern theories of growth.

Prerequisites: C 2204 501.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3 sh

Principles of international finance, international monetary relations and international trade. Discussion of contemporary international monetary and trade problems and policies. Discussion of the economic aspects of current American foreign policy.

Prerequisites: C 2204 501.

C 2204 544 GOVERNMENT AND BUSINESS 3 sh

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control, and the importance of economic analysis in the foundation of public policies.

Prerequisites: C 2204 501.

C 2204 545 ECONOMICS OF LABOR 3 sh

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.

Prerequisites: C 2204 501.

C 2204 603 READING SEMINAR IN ECONOMICS 2 sh

Required of all masters degree candidates concentrating in Economics. This seminar entails directed independent study in preparation for a 3-hour written comprehensive examination.

Geography & Urban Studies Course Descriptions

N 2206 501 AIR RESOURCE MANAGEMENT 3 sh

Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun

energy as modified by man is traced through the atmosphere, vegetation, soil and water.

N 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY 3 sh

Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.

N 2206 503 CULTURE REGIONS 3 sh

Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space and the diffusion process.

N 2206 504 PRO-SEMINAR 3 sh

Research on selected problems which will vary according to instructor.

N 2206 505 HUMAN ENVIRONMENT 3 sh

Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.

N 2206 509 WATER RESOURCE MANAGEMENT 3 sh

The spatial patterns of the water resource both as surface water and ground water. Processes affecting availability and techniques of estimation are stressed.

Prerequisite: N 4951 501.

N 2206 510 URBAN SYSTEMS ANALYSIS 3 sh

The complexity of the city and its modification by means of planning the systems approach to urban study, the ecological base, different models of urban systems, the impact of technological change, the hieraracy of urban regions; planning in the existing systems and creating new ones.

N 2206 511 URBAN AND REGIONAL PLANNING 3 sh

Urban and regional planning, analyzing planning goals at an integral level, and rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

N 2206 520 LANDSCAPES IN TRANSITION 3 sh

The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

N 2206 521 RESEARCH METHODS AND TECHNIQUES IN GEOGRAPHY AND URBAN STUDIES 3 sh

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical, mapping techniques, and the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3 sh

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3 sh

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective, the interaction of different social, cultural, economic, political and planning forces are examined for their impact upon the resulting system.

N 2206 551 THE METROPOLITAN ECONOMY 3 sh

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inner city relationships. Urban design planning juxtaposed with multi-faceted decision making processes for an examination of their relative position in the management of urban systems.

N 2206 603 READING SEMINAR IN GEOGRAPHY & URBAN STUDIES 3 sh

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3 sh

This seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

History Course Descriptions

P 2205 501 NEW INTERPRETATIONS IN HISTORY 3 sh

Designed to help teachers keep up to date in the fields of American, European and non-Western history. Major trends and developments in the study of History in the light of recent representative examples of historical research and interpretation.

P 2205 502 HISTORY AND NEW SOCIAL STUDIES 3 sh

Designed to assist teachers, administrators and supervisors in acquiring a comprehensive view of modern materials, methods and curricula in History and the Social Sciences.

Prerequisite: Open only to students with Social Studies certification, or permission of the instructor.

P 2205 511 SEMINAR IN AMERICAN COLONIAL HISTORY 3 sh

This course will examine the forces and conditions of the colonial period which contributed to the shaping of the characteristics of American

political and economic institutions, social practices and ideas, intellectual outlooks, and attitudes.

P 2205 512 AMERICAN REVOLUTION 1763-1787 3 sh

The causes and course of the American Revolution from both British and American viewpoints, including analysis of economic, political, social and intellectual factors.

P 2205 513 PROBLEMS—NEW NATION 1789-1828 3 sh

The growth of political institutions under the constitution, the gaining of respect as a new country in the family of nations, the establishment of economic credit, and the rise of American nationalism.

P 2205 514 THE CRISIS OF AMERICAN NATIONALISM, 1828-1876 3 sh

The crisis in American nationalism from Jackson through Reconstruction as the country's constitution, party system, and social structure contended with the disruptive effects of territorial expansion, the factory system, slavery and the New Immigration.

P 2205 517 AGE OF FRANKLIN D. ROOSEVELT 3 sh

An opportunity to study that part of recent American history centering upon Franklin Delano Roosevelt. While concentrating on domestic aspects of American life, attention is given also to foreign affairs and their impact on the daily lives of Americans.

P 2205 518 URBAN HISTORY: NATIONAL TRENDS IN NEW JERSEY CITIES 3 sh

An advanced survey of the urban dimension in American history and of urban history as a discipline. Late 19th and 20th Century national trends are pinpointed within the development of Paterson, Passaic, Jersey City, Newark and their suburbs.

Prerequisite: Open only to History or Social Science candidates or students with Social Studies certification.

P 2205 519 AMERICA SINCE 1945 3 sh

The transformation of the Roosevelt coalition and its liberal policies since 1945. Challenge of the Cold War, and racial upheaval.

P 2205 520 UNITED STATES FAR EASTERN RELATIONS 3 sh

United States relations with China and Japan, 1842 to the present. The men who formulated and implemented our foreign policy.

P 2205 521 CIVIL WAR & REVOLUTION IN CHINESE HISTORY, 1911-1949 3 sh

The transformation of China from empire to Peoples Republic. Chinese concepts of revolution and the intellectual, political and social changes which preceded the formation of the Peoples Republic in 1949.

P 2205 522 REVOLUTIONARY RUSSIA 1905-1921 3 sh

The historical forces of 19th and 20th Century Russia which led to the Bolshevik Revolution of November, 1917 and to the consolidation of Soviet power by 1921.

- P 2205 523 HISTORY OF SOVIET DIPLOMACY 3 sh**
Changes in the ideological determinants of Soviet diplomacy contrasted with fluctuations in internal and external political and economic policies. Contributions of leading Soviet statesmen to diplomatic history.
- P 2205 524 HISTORY OF AMERICAN BUSINESS LEADERS 3 sh**
Designed to familiarize students with major developments in American business history. The mutual impact of business and society is investigated through biographical studies of leading American businessmen.
- P 2205 526 THE INDUSTRIALIZATION OF AMERICA, 1865-1900 3 sh**
The causes and nature of the industrialization of the American economy after the Civil War; factors responsible for rapid economic growth; the impact of changing productive techniques on American institutions and human welfare.
- P 2205 527 INDUSTRIALIZATION OF EUROPE 3 sh**
European economic development with major attention to the period since about 1750. Comparing economic growth during the 19th and 20th Centuries in Britain, France, Germany, Italy and Russia.
- P 2205 529 EUROPE OF THE DICTATORS, 1919-1939 3 sh**
The political, social, economic and intellectual developments in the major states of Western Europe during the interwar period, with emphasis on varieties of facism.
- P 2205 532 MODERNIZATION IN JAPANESE CULTURAL HISTORY 3 sh**
Modernization in East Asia with focus on Japan. Japanese experience in adjusting New World focuses of the 19th and 20th centuries considered against the background of her traditional values and institutions. Comparisons with China and Korea.
- P 2205 533 FRENCH REVOLUTION AND NAPOLEON 3 sh**
The background of the French Revolution, its changing course and cast of characters during 1789-99, and the advent to power and imperial regime of Napoleon, 1799-1814.
- P 2205 534 FRANCE OF THE REPUBLICS 3 sh**
The development of modern France since 1870; political, economic and intellectual conditions and trends through the third, fourth and fifth republics.
- P 2205 537 NINETEENTH CENTURY EUROPEAN INTELLECTUAL HISTORY 3 sh**
Romantic, utilitarian, conservative, liberal and early existential streams of thought in 19th-century Europe. The impact of these intellectual movements on European society.
- P 2205 540 EUROPE AS A WORLD CIVILIZATION 3 sh**
General analysis and reappraisal of the place of Europe in world history. The development, distinctive contributions and future prospects of European civilization examined in the light of contemporary world conditions.

P 2205 541 ASIAN CIVILIZATION—COMPARATIVE CULTURAL HISTORY 3 sh

Course compares and contrasts central value systems, kinship institutions, social stratification and the exercise of political power in traditional India, China and Japan. These topics are related to differing patterns of nationalism in the 19th and 20th centuries.

P 2205 603 READING SEMINAR IN HISTORY 2 sh

Required for all master's degree candidates concentrating in History. This seminar entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration. Candidates should register for the seminar in the semester preceding the examination date. Registration examination fall, March; spring, October.

Political Science Course Descriptions

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3 sh

Literature and developments in the field of public administration from Woodrow Wilson to the New Public Administration Movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy-making process.

Prerequisite: An undergraduate course in Public Administration or permission of the instructor.

S 2207 502 MODERN POLITICAL ANALYSIS 3 sh

Required of all master's degree candidates concentrating in Political Science. This course deals with the methodologies and orientations that have guided the study of political phenomena. Utility of methods and the validity of theories are examined by reference to data related to specific political systems. Perspective is comparative and theoretical.

Prerequisite: A course in the scope and theories of Political Science, or equivalent, or instructor's permission.

S 2207 512 ORIGIN AND DEVELOPMENT OF THE U.S. CONSTITUTION 1619-1835 3 sh

The roots and influences that determine the nation's basic political document. The role of the Marshall Court in shaping the Constitution.

Prerequisite: A course in American Government or permission of the instructor.

S 2207 521 HISTORY OF POLITICAL THOUGHT 3 sh

Systematic analysis of the main traditions of western political thought. Study of major political philosophers from Plato to Marx. Leading concepts of each major tradition are related to their historical contexts and their contemporary significance.

Prerequisite: A course in Political Theory or permission of the instructor.

S 2207 522 GREAT BRITAIN & COMMONWEALTH 3 sh

Origins, membership and working institutions of the British Commonwealth of Nations. Problems of the Commonwealth since 1945, in light of Britain's altered position in International and European Affairs.

S 2207 523 POLITICS OF DEVELOPING AREAS 3 sh

Introduction to the field of political stability and change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary and continuing search for political modernization in the emerging nation-states of Africa, Asia and Latin America.

Prerequisite: Course in Politics of Development and Modernization or permission of the instructor.

S 2207 524 THE THIRD WORLD IN THE INTERNATIONAL SYSTEM 3 sh

The position and role of African and Asian nation-states in contemporary international relations, mutual relations; their encounters with the major powers, involvement in general international organizational and diplomatic activity and domestic political and economic factors that affect or underline their international interactions.

Prerequisite: A course in government and politics of Africa, or government and politics of South Asia or instructor's permission.

S 2207 551 CONTEMPORARY CONSTITUTIONAL LAW 3 sh

The Supreme Court's decisions in the area of public law. Critical analysis and in-depth study of the first ten amendments, especially as related to the court's recent decisions.

Prerequisite: A course in Constitutional Law or permission of the instructor.

S 2207 552 THE PRESIDENT AND CONGRESS 3 sh

Organization, structure and powers of the national executive and legislative branches of government. Emphasis on legislative executive relationships, nature and functioning of the legislative powers, respective roles of the President and Congress in the formulation of public policy in a modern democracy.

Prerequisite: A course in American Government or permission of the instructor.

S 2207 553 FEDERAL JUDICIAL PROCESS 3 sh

The federal courts as a political subsystem; court organization, civil and criminal procedures, judicial behavior of federal judges, interactions between federal courts, relations with clientele groups and other branches of the federal government, the flow and content of litigation, and relations with state court systems.

Prerequisite: A course in American Government or State and Local Government or permission of the instructor.

S 2207 554 SEMINAR IN AMERICAN POLITICAL THOUGHT 3 sh

The various interpretations of American political thought. Nature and limitations of the liberal ethos underlying the American political and constitutional system; the controversy over the "bias" of American pluralism.

Prerequisite: A course in American Political Thought or permission of the instructor.

S 2207 603 READING SEMINAR IN POLITICAL SCIENCE 2 sh
Required of all master's degree candidates concentrating in Political Science, this seminar details directed independent study in preparation for a three-hour written comprehensive examination.

Sociology Course Descriptions

U 2208 559 SOCIOLOGY OF DEVIANCE 3 sh
The efforts of such people as Lemert, Becker, Morton, Matze and others to develop theories concerning crime, delinquency, mental illness and other issues which can be viewed as social problems.

U 2208 560 SOCIOLOGICAL THEORY 3 sh
The practical and philosophical methods of the seminal sociological theorists, investigated and evaluated in terms of many conceptions of adequate scientific procedure.

U 2208 561 CONSTRUCTION OF SOCIAL THEORY 3 sh
Sociological theory as an artful practice, theorists, such as Durkheim, Weber, Marx, Freud and Merton discussed as courses of action.

U 2208 562 SOCIAL CHANGE 3 sh
The dynamics of contemporary societies, sacred and secular movements, technological and cultural change, protest and revolution, and 20th-century nationalism. The effect of change considered in relation to individuals, groups, institutions and total societies.

U 2208 563 SELF AND SOCIETY 3 sh
The relationship between human individuals and their social environment; the formation, maintenance and transformation of self or identity; the structure and processes of small groups; symbolic communications; role theory, cognitive dissonance and inter-group conflict.

U 2208 564 SOCIAL PLANNING 3 sh
The many elements and considerations in planning for a community, a state or a nation. The social context of planning; projective techniques, budgets, master plans, development programs and area proposals. The human, the economic, the ecological. Students will be expected to undertake a social planning project. A basic knowledge of statistics and the use of statistical data is desirable.

U 2208 565 SOCIOLOGY OF YOUTH 3 sh
Socialization processes acting upon young people, the role of family, neighborhood, school and community, the effects of failures in these socializing agencies, changing relations among age grades and quantitative studies of the culture of youth with comparisons with other age grades.

U 2208 566 THE METROPOLITAN COMMUNITY 3 sh

The many dimensions of the metropolitan community; human factors, problems an area faces, political difficulties, interaction between the center city and the other parts of the community. Emphasis on New York-New Jérsey.

U 2208 567 POWER AND SOCIAL STRATIFICATION 3 sh

Theoretical and empirical approaches to the phenomena of class, status and power. Examination of contemporary research on power and stratification. A comparative approach will be taken.

U 2208 568 SOCIAL RESEARCH METHODS I 3 sh

The elements of sociological methods included in this course are study design, hypotheses development, data collection techniques, use of primary and secondary sources, and field techniques.

U 2208 569 SOCIAL RESEARCH METHODS II 3 sh

Continuation of Social Research Methods I. The elements of method included are coding techniques, analysis and scientific report writing.

U 2208 570 INDEPENDENT PROJECTS 3 sh

Student investigates a topic of sociological relevance under the guidance of a faculty member.

U 2208 571 SEMINAR SOCIOLOGICAL INQUIRY 3 sh

Develops competencies needed for the critical assessment of sociological literature, the formulation of productive research problems and the sophisticated pursuit of inquiry. Intensive study of a number of readings dealing with certain crucial areas of sociological concern. Also gives students coming into Sociology concentration without a broad background remedial experience in dealing with advanced concepts, theories and methods.

U 2208 572 SELECTED PROBLEMS IN SOCIOLOGY 3 sh

The intensive exploration of a general problem in Sociology. Participants contribute research into an aspect of the problem. Formed at the initiative of a department member or in response to student's interest with consent of the instructor.

U 2208 573 SOCIOLOGY OF CITY SUB-AREAS 3 sh

The social forces in the inner city and other sub-areas, existing and emerging cultural strengths and positive supportive patterns and problems related to poverty, housing, education, employment, leisure and aesthetics.

U 2208 574 SOCIOLOGY OF ETHNIC RELATIONSHIPS 3 sh

Analysis of relationships among ethnic groups. Causes and consequences of ethnic conflict.

U 2208 575 SOCIOLOGY OF VOLUNTARY MEMBERSHIP INSTITUTIONS 3 sh

Descriptive and theoretical analysis of constructive action patterns in leisure and other voluntary membership institutions; structural and functional significance of these behaviors to the American social order.

U 2208 576 THE FAMILY AS AN INSTITUTION 3 sh

The family unit as an institution within society, the family in contemporary American society and the family sociologically examined as an institutional form, a social system in process and a socializing agency.

U 2208 577 SOCIOLOGY OF POVERTY IN THE UNITED STATES 3 sh

Examines traditional and contemporary definitions and ideologies of poverty and public welfare. Consideration of the extent and patterns of distribution of poverty. Alternative socio-economic explanations and their implications for public policy.

U 2208 579 COMMUNITY RESOURCES AND YOUTH 3 sh

Resources for the healthy as well as the deviant child, in the family and neighborhood, in addition to services provided by public and private agencies; relevant federal and state legislation.

U 2208 580 THE SOCIOLOGY OF HIGHER EDUCATION 3 sh

This course will introduce students to view the university, its structure, history, and place within society from a sociological perspective.

U 2208 603 READING SEMINAR IN SOCIOLOGY 2 sh

Required for all master's candidates concentrating in sociology who elected to take a comprehensive examination. Candidates should register for the seminar in the semester preceding the examination date.



SPANISH/ITALIAN

Chairperson: Professor Janet Susi

Graduate Advisor: Dr. Robert McCormick

The program is designed to prepare students for research in language and literature, and for professional positions demanding a knowledge of Spanish: interpreters; translators; counselor service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors; organizers of projects for Spanish-speaking communities; and representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in colleges and universities.

ADMISSION REQUIREMENTS

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours or the equivalent of undergraduate Spanish and hold a bachelor's degree. These students must take the Graduate Record Examination in Spanish prior to acceptance into the program.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a Master's degree program, if they have 24 credit hours or the equivalent in Spanish.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN SPANISH

- | | | |
|------|---|-------|
| I. | Required Courses | 3 sh |
| | 1105 505 History of the Spanish Language | 3 sh |
| II. | Peninsular Area | 12 sh |
| | One course from each of 4 designated areas | |
| III. | Spanish-American Area | 12 sh |
| | One course from each of 4 designated areas | |
| IV. | Electives | 9 sh |
| | A minimum of three additional courses from the departmental offerings | |
| V. | Comprehensive Examination. The candidate for the M.A. degree will apply to the graduate advisor for the comprehensive examination one semester prior to the desired examination date. | |

Minimum: 36 semester hours

For further details see the graduate advisor.

SPANISH/ITALIAN

Course Descriptions

V 1105 505 HISTORY OF SPANISH LANGUAGE 3 sh

The Spanish language from its origins to the present. Phonological, structural and lexical evolution from vulgar Latin, following the process of transformation from its first documentary appearance.

V 1105 506 SPANISH DIALECTOLOGY OF THE AMERICAS 3 sh

This course acquaints the student with the various dialects of Spanish found in America. The student learns to recognize, characterize and describe accurately the various dialects discussed. Lectures are presented on each dialect with student discussion following. Taped conversations representing the various dialects are then played and discussed.

Prerequisite: V 1105 505.

V 1105 516 MEDIEVAL SPANISH LITERATURE TO THE FIFTEENTH CENTURY 3 sh

The outstanding prose and poetry of Spain from the eleventh century to the fifteenth century, paying attention to the peculiar three-cultured society of the period.

V 1105 522 THEATER OF THE GOLDEN AGE 3 sh

Structural and thematic study of the *comedia* through readings and discussion of representative plays of the period including Lope, Tirso, Calderon, Alarcon and Moreto.

V 1105 523 PROSE & POETRY OF THE GOLDEN AGE 3 sh

Critical readings of the picaresque and pastoral novels, humanistic writings of Luis Vives, Alfonso and Juan Valdes, and Gracián. Textual analysis of the poetry of the Renaissance and Baroque from Garcilaso to Quevedo.

V 1105 524 CERVANTES 3 sh

The prose writings and drama of Cervantes focusing on his unique artistic achievement. Readings of *El Quixote*, *Novelas ejemplares*, *Persiles y Segismunda*, his *Comedias* and *Entremeses*.

V 1105 525 LA ILUSTRACION AND ROMANTICISM 3 sh

The Erudition of the Enlightenment as symbolized by Feijoo, Jovellanos; Neoclassicism; the Romantic movement by Larra, El Duque de Rivas; Espronceda, Garcia Gutiérrez, Zorrilla, Alarcón and Costumbrismo.

V 1105 526 REALISM IN SPAIN 3 sh

Problems germane to 19th century Spain, as shown by Fernán Caballero, Pereda, Blasco Ibáñez. Particular emphasis upon the works of Pérez Galdós.

V 1105 527 THE GENERATION OF 98 3 sh

A reprobing into the roots of Spain through the works of Unamuno, "Azorín," Baroja, Valle-Inclán, Benavente, Ortega y Gasset and Maeztu.

V 1105 533 CONTEMPORARY SPANISH THEATER 3 sh
Representative plays from Benavente to Sastre are read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.

V 1105 534 SPANISH PROSE OF THE TWENTIETH CENTURY 3 sh

Prose works of the generations of 1927 and 1936; Lorca, Casona. Trends in contemporary prose; Buero Vallejo, Sastre, Cela, Zunzunegui, Delibes, Goytisolo, Laforet, Matute and selected younger writers of the present generation.

V 1105 535 CONTEMPORARY SPANISH POETRY 3 sh
Unamuno, Machado, Jiménez. The poetry of the generation of '27 and selective readings of younger poets of today. Emphasis on textual analysis.

V 1105 540 COLONIAL SPANISH-AMERICAN LITERATURE 3 sh
Indigenous literature such as the Popol Vuh, Rabinal Achi, and Nahuatl and Quechua poetry, the Chronicles, the Inca Garcilaso and Epic poetry. Sor Juana Ines De La Cruz and Concolorcorvo.

V 1105 541 SPANISH-AMERICAN LITERATURE OF THE NINETEENTH CENTURY 3 sh

The evolution from neoclassicism and romanticism to naturalism and realism in prose and poetry. Fernández de Lizardi, Heredia, La Avellaneda, Matto De Turner, Sarmiento and the Gaucho poets.

V 1105 542 SPANISH-AMERICAN LITERATURE OF THE TWENTIETH CENTURY 3 sh

Study of the aesthetic novels of modernismo, novels of the Mexican revolution, the psychological novel and novel of the land and of social reform.

V 1105 543 SPANISH-AMERICAN THEATER OF THE TWENTIETH CENTURY 3 sh

New trends in the Spanish-American Theater; The Theater of the Absurd, the Theater of Cruelty, and the Fantastic. Readings of such representative playwrights as Emilio Carballido, Carlos Solórzano, Elena Garro, Osvaldo Dragún, Griselda Gambaro.

V 1105 546 MODERNISMO IN SPANISH AMERICA 3 sh
Critical evaluation of the Modernista movement in Spanish-American poetry and prose (1870-1920). The Genesis, technique, characteristics and principal writers of the movement.

V 1105 548 CONTEMPORARY SPANISH-AMERICAN NOVEL 3 sh
A critical examination of representative works of contemporary writing in Spanish-America. The relation of the Spanish-American novel to the genre in Europe, North America and Spain.
Prerequisite: V 1104 542.

V 1105 549 CONTEMPORARY SPANISH-AMERICAN 3 sh
SHORT STORY

Study of the tendencies in the contemporary short story from the post-modernist period, realism and fantasy. The short story as a social document.

V 1105 551 CONTEMPORARY SPANISH-AMERICAN 3 sh
POETRY

Individual works of poetry as autonomous linguistic and artistic creations and as part of a general renaissance in culture. Post-modernism, vanguardism and post-vanguardism.

V 1105 560 TOPICS IN SPANISH-AMERICAN LITERATURE 3 sh

Selected specialized topics, either of a period, genre, or particular author, in Spanish-American literature. Topic will change with each offering.

V 1105 570 PETRARCH AND BOCCACCIO: THE WANING 3 sh
OF THE MIDDLE AGES AND THE FOUNDATIONS OF
THE HUMANISTIC CULTURE

Medieval literary traditions, in particular of the genres of lyric poetry and short story. Petrarch and Boccaccio as founders of humanistic culture; their philosophical, devotional and scholarly writings. The Italian poetry of Petrarch, *Canzoniere* and Trionfi. Boccaccio's *Decameron*.

V 1105 572 LITERARY AND PHILOSOPHICAL TRADITIONS 3 sh
IN DANTE'S DIVINE COMEDY

Discussion of specific themes of the *Divine Comedy*, such as Dante's conception of history, idea of physical world, theories on light and music, medieval tradition of classicism, prophetic and eschatological literature. Examination of these issues in the light of their historical tradition as well as in Dante's personal interpretation.

V 1105 574 MACHIAVELLI AND RENAISSANCE THOUGHT 3 sh
Italy in the age of the signorie. Machiavelli's and Guicciardini's writings and their impact on European culture and thought. Interpretation and evaluation of their works.

V 1105 603 RESEARCH 3 sh

Course designed to provide an opportunity for graduate students in Spanish to investigate and apply techniques of research. Students will write a major paper in the area of their field of specialization.

Prerequisite: Completion of at least 15 hours in the major field of specialization.

SPEECH AND THEATER

Chairperson: Dr. Wayne Bond

Graduate Advisor: Dr. Gerald Ratliff

The Master of Arts degree in Speech and Theater is designed to enhance the development of already existing skills in communication theory, public media arts, and theater. The program is structured to emphasize both the theoretical and practical approaches to Speech and Theater, and to allow for original research and creative projects. Special attention is paid to the literature and history of each area of concentration, and to the respective academic skills necessary to become a practitioner of the selected discipline. The course sequence and content are designed to strengthen teaching, performance, and analytical skills, and to prepare those who wish to pursue a profession in media and arts related areas. The Master of Arts degree is also ideally suited for those who plan to continue in a program of doctoral studies.

ADMISSION REQUIREMENTS

Students wishing to matriculate as Speech and Theater majors must have completed a major or the equivalent from the following areas: Theater, Oral Interpretation, Speech or Mass Communication. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory backgrounds through undergraduate courses for which graduate credit is not given.

REQUIREMENTS FOR THE MASTER OF ARTS IN SPEECH AND THEATER

The candidate must complete all four parts of the requirements for the degree as detailed below.

- | | | |
|-----|---|--------|
| I. | Core Courses | 7-9 sh |
| | 1506 501 Survey of Research Methods | 3 sh |
| | 0603 or 1007 or 1506 600 Thesis | 4 sh |
| | or non-thesis option: selected courses recommended by Graduate
Advisor | 6 sh |
| II. | Elective Courses within the Concentration | 19 sh |

CONCENTRATION IN THEATER

Emphasis in either Technical Theater or Acting/Directing

1007 500	Independent Study	By arrangement
1007 504	Contemporary Experimental Theater	2 sh
1007 507	Seminar in Dramatic Production	3 sh
1007 508	Internship in Dramatic Production	3-7 sh
1007 511	Forms of Tragedy	3 sh
1007 512	Forms of Comedy	3 sh
1007 513	Modern and Contemporary Theater History	3 sh
1007 514	Non-Western Drama and Theater	3 sh
1007 517	Theater Criticism	3 sh
1007 525	Advanced Acting Workshop	3 sh
1007 535	Advanced Directing Workshop	3 sh
1007 545	Scenic Design I: The Legitimate Theater	3 sh
1007 546	Scenic Design II: The Performing Arts	3 sh
1007 554	Stage Lighting Design	3 sh
1007 555	Advanced Problems in Technical Production	3 sh
1007 575	Seminar in Costume Design and Construction	3 sh
1007 580	Theater Management	3 sh
1007 599	Independent Study	By arrangement
1007 600	Thesis	4 sh
1506 504	Advanced Applied Phonetic Study	3 sh
1506 509	Special Problems in Speech and Theater	3 sh
1506 565	Advanced Oral Interpretation	3 sh

CONCENTRATION IN SPEECH AND THEATER EDUCATION

1506 500	Independent Study	By arrangement
1506 501	Survey of Research Methods	3 sh
1506 503	Advanced Voice and Speech Improvement	3 sh
1506 504	Advanced Applied Phonetic Study	3 sh
1506 509	Special Problems in Speech and Theater	3 sh
1506 511	Revolutionary Rhetoric	3 sh
1506 519	Seminar in Rhetorical Criticism	3 sh
1506 521	Competitive Forensics	3 sh
1506 533	Lecture and Lecture Recital	1 sh
1506 536	Seminar in Persuasion	3 sh
1506 560	Internship in Oral Communication	3-7 sh
1506 565	Advanced Oral Interpretation	3 sh
1506 599	Independent Study	By arrangement
1506 600	Thesis	4 sh
0603 581	The Broadcast Media and Mass Culture	3 sh

INTERDISCIPLINARY CONCENTRATION IN PUBLIC MEDIA ARTS

A study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603 500	Independent Study	By arrangement
0603 510	Television Production I	3 sh
0603 511	Television Production II	3 sh
0603 580	Internship in Public Media Arts	3-7 sh
0603 581	The Broadcast Media and Mass Culture	3 sh
0603 582	Techniques of Broadcast Communication	3 sh
0603 599	Independent Study	By arrangement
0603 600	Thesis	4 sh
1506 511	Revolutionary Rhetoric	3 sh
1506 519	Seminar in Rhetorical Criticism	3 sh
1506 533	Lecture and Lecture Recital	1 sh

In addition, the graduate student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the Advisor's permission. Prerequisites required in these courses can be taken as free electives.

III. Free Electives 6 sh
Can be utilized as necessary for graduate course prerequisites and/or professional education courses.

IV. Additional departmental requirements:

1. Written comprehensive examination.
2. Demonstration of oral competence: candidate must demonstrate proficiency in handling speech in a public situation.

Minimum with Thesis: 32 semester hours

Minimum without Thesis: 34 semester hours

In addition to the courses described below, the department offers special workshops and seminars presented by working professionals from the various fields. Graduate students should consult with their advisor to take advantage of these opportunities.

SPEECH AND THEATER

Course Descriptions

I 0603 500 INDEPENDENT STUDY-SPEECH & THEATER 1-3 sh
The undertaking of course work in one of the regularly listed catalog courses of the Department of Speech and Theater in a depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the Graduate Advisor for Speech and Theater prior to registration. Independent study may be elected more than once during the graduate program.

I 0603 510 TELEVISION PRODUCTION I 3 sh

Insight and experience in the production of in-studio programs for television. Attention to commercial production, news, interviews, demonstrations, lighting and graphics.

Prerequisite: Open to majors or by permission of instructor.

I 0603 511 TELEVISION PRODUCTION II 3 sh

Group activity in the preparation and presentation of broadcast materials including music programming, drama, interviews and educational school programming.

Prerequisite: I 0603 510.

I 0603 580 INTERNSHIP IN PUBLIC MEDIA ART 3-7 sh

Off campus practicum assignments at radio and television broadcasting facilities and other learning sites. Broad, balanced and locally supervised experience, by arrangement.

Prerequisite: Open to majors only. Application through the department prior to registration.

I 0603 581 THE BROADCAST MEDIA AND MASS CULTURE 3 sh

Influences and effects of the broadcast media on society; policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change. Open to all graduate students.

I 0603 582 TECHNIQUES OF BROADCAST COMMUNICATION 3 sh

Techniques and ethics in the production of informative, entertainment, persuasive and public relations material for mass public consumption. Open to all graduate students.

I 0603 585 PROSEMINAR IN BROADCASTING 3 sh

A study of the evolution of the broadcast industry's present structure and operation, as primarily influenced by political and economic forces. The course will also discuss contemporary issues that may cause structural change in the industry.

I 0603 599 INDEPENDENT STUDY 1-3 sh

The independent study of an area of public media that results in extended knowledge of the discipline. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Independent study may be elected more than once during the graduate program.

I 1007 500 INDEPENDENT STUDY IN THEATER 1-3 sh

Individual projects in Theatre that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies. The nature of the course permits advanced graduate students to pursue areas of theatre not covered by present offerings.

I 1007 504 CONTEMPORARY THEATER PRACTICE 3 sh

The status and practices in today's professional theater; writing, playing, staging and producing problems and trends of current theatrical fare. Supplemented by theatrical personnel and visits to professional producing groups in the metropolitan area. Open to all graduate students.

I 1007 507 SEMINAR IN DRAMATIC PRODUCTION 3 sh

Advanced play production students pursue projects to meet individual needs in acting, directing, technical theater or other production aspects. Prerequisite: Open to majors only.

I 1007 508 INTERNSHIP IN DRAMATIC PRODUCTION 3-7 sh

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theater, on or off campus. Student assists director, designer, crew chief or technical supervisor. Contracts drawn by student, college sponsor and off-campus supervisor.

Prerequisite: Open to majors only. Application through department before registration.

I 1007 511 FORMS OF TRAGEDY 3 sh

The "evolution" of tragic theory as it manifests itself in each of the periods of theater history and dramatic criticism. Included in the examination is an evaluation of representative tragic playscripts in terms of style, structure, "tragic devices," content, and performance.

I 1007 512 FORMS OF COMEDY 3 sh

Historical survey of comic theory from Aristotle to Albee, with special emphasis on principles and practices of comic theory as revealed in selected playscripts. The basic approach is lecture by historical periods, from Classical to the modern, followed by reading and discussion of representative playscripts from each historical period.

I 1007 513 MODERN AND CONTEMPORARY THEATER HISTORY 3 sh

Theatrical history associated with western culture from 1890 to the present; the contemporary theatrical scene and its direct heritage. Some attention to American theater, but major emphasis on British and continental developments. Open to all graduate students with a background in dramatic literature.

I 1007 514 NON-WESTERN DRAMA AND THEATER 3 sh

Theatrical forms and dramatic literature of non-western cultures in historical and contemporary context: China, Japan, India, Southeast Asia, and Africa. Theatrical practices in staging various dramatic forms. Open to all graduate students with a background in dramatic literature or Asian studies.

I 1007 517 THEATER CRITICISM 3 sh

Standards and values, both personal and historical, by which plays are judged. Open to all graduate students with a background in dramatic literature or theater production.

I 1007 525 ADVANCED ACTING WORKSHOP 3 sh

A survey of acting styles from the classical to the modern, highlighting periods of style that include Elizabethan, improvisation, comedia, and method. The basic assignments of the course are scene study, group scene presentations, and a final group project. Secondary readings in acting theory are assigned, and it is assumed that advanced drama students will refine their individual acting techniques. The nature of the performance class is discussion, play analysis and in class acting presentations.

I 1007 535 ADVANCED DIRECTING WORKSHOP 3 sh

Directing repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook.

Prerequisite: Open to majors or by permission of instructor.

I 1007 545 SCENIC DESIGN I: THE LEGITIMATE THEATER 3 sh

Stage design as related to the play, director and audience; styles of design, perspective sketch and stage model in planning stage setting. Stage construction techniques used to demonstrate the necessity of scene design in planning stage production.

Prerequisite: Open to majors or by permission of instructor.

I 1007 546 SCENIC DESIGN II: PERFORMING ARTS 3 sh

Design problems inherent in musical comedy, opera and dance. Physical qualities of space, arena and proscenium staging and the challenges of each. Projects will involve both lighting and scenic design. Open to graduate students with a background in the performing arts.

I 1007 554 STAGE LIGHTING DESIGN 3 sh

Introduction to light from pragmatic and esthetic points of view. Functions and qualities as a design medium, and types of control and instrumentation available to designer. Development of several lighting designs.

Prerequisite: Open to majors or by permission of instructor.

I 1007 555 ADVANCED PROBLEMS IN TECHNICAL PRODUCTION 3 sh

Physical resources available to the technician. Exploration of new materials and techniques as well as extensive work in standard techniques. Knowledge of drafting techniques helpful.

Prerequisite: Open to majors or by permission of instructor.

I 1007 575 SEMINAR: COSTUME DESIGN AND CONSTRUCTION 3 sh

Costume as one visual element of design in the theater. Research procedure, design theory, construction techniques, use of materials. Open to majors or permission of instructor.

I 1007 580 THEATER MANAGEMENT**3 sh**

The theater as a business enterprise; production units, box office procedures, standard contractual arrangements, unions and their regulations, subscription management. Manager as a community relation specialist, publicity, the theater as a community resource. Open to graduate students with a background in performing arts.

**I 1007 592 AREAS AND TECHNIQUES OF RESEARCH IN
SPEECH AND DRAMATICS****3 sh**

Individual studies in research and methodologies of research related to Speech and Theatre. Students and instructor agree upon a selected topic for discussion, a method of research, empirical, descriptive or historical, is assigned, and the student presents the findings at the conclusion of the course of study. Each student is required to prepare an outline for a research project, to develop a bibliography, and to submit a final work suitable for publication in a professional journal.

I 1506 500 INDEPENDENT STUDY SPEECH/THEATER**1-3 sh**

Selected topics in the areas of theater history, criticism, literature and design are pursued by advanced graduate students in consultation with the graduate faculty. The area for detailed investigation is selected, research and analysis is made, and the student submits a formal research paper to complete the assignment. There are weekly meetings with the instructor to provide guidance, and the student is also responsible for an annotated bibliography.

I 1506 501 SURVEY OF RESEARCH METHODS**3 sh**

Research methods relating to rhetorical theory, public address, interpersonal communication, theater history, dramatic production and contemporary theatrical idiom. Historical, critical, descriptive, quantitative and experimental models and methodologies. Individual student needs and interests considered.

Prerequisite: Open to majors only.

**I 1506 503 ADVANCED VOICE AND SPEECH
IMPROVEMENT****3 sh**

To refine the voice and diction patterns of the advanced student. Provides student with techniques of evaluating and improving speech of others in a practical setting.

Prerequisite: Open to majors, by permission of instructor for non-majors.

I 1506 504 ADVANCED APPLIED PHONETIC STUDY**3 sh**

The phonetic approach to erasing and acquiring typical and atypical American and foreign speech sounds and patterns for stage, radio, TV and classroom.

Prerequisite: Open to majors only.

**I 1506 509 SPECIAL PROBLEMS IN SPEECH AND
THEATER****3 sh**

Individual problems in Theater, Speech and Mass Communication. Reports, papers, panel discussion and experimentation.

I 1506 511 REVOLUNTIONARY RHETORIC 3 sh

The "revolutionary" speaking of the last decade. Civil rights, university reform and war protest speakers in historical perspective. The student, as rhetorical critic, evaluating speaker and audience, will assess the ultimate effects of revolutionary speaking. Open to all graduate students.

I 1506 519 SEMINAR: RHETORICAL CRITICISM 3 sh

Functions, types of problems of rhetorical criticisms. Comparison of Aristotelian and non-Aristotelian approaches.

I 1506 521 COMPETITIVE FORENSICS 3 sh

Techniques for directing and coaching intra- and inter-scholastic forensic events. Discussion, debate, parliamentary congresses; speaking, reading and performing contests; local, regional and national tournament administration; scheduling, rules, publicity, housing and awards. Open to all graduate students.

I 1506 533 LECTURE AND LECTURE RECITAL 1 sh

Study of professional work on the public platform climaxed by a lecture or recital of a professional nature.

Prerequisite: Open to majors only.

I 1506 534 GRADUATE READINGS IN SPEECH AND THEATRE 3 sh

Selected topics of an advanced nature that require research and library use of primary and secondary sources to advance knowledge in the areas of Speech or Theatre. Individual topics are selected with approval of faculty member. Student does independent research that results in a significant contribution to the field of study chosen.

I 1506 536 SEMINAR IN PERSUASION 3 sh

Critical examination of psychological, sociological and cultural dimensions of persuasive discourse.

I 1506 560 INTERNSHIP-ORAL COMMUNICATION 3-7 sh

Off-campus practicum assignments range from serving on campaign speaker's or public speaker's speech staff to coaching students and/or conducting forensic tournaments. Broad, balanced and locally supervised experience, by arrangement. Application through the department prior to registration.

I 1506 565 ADVANCED ORAL INTERPRETATION 3 sh

Techniques in interpretation of poetry and prose; analysis and presentation of types of literary genres (short story, ballad, essay, narrative sonnet, etc.) for use in classroom and special programs. Open to all graduate students.

I 1506 599 INDEPENDENT STUDY 1-7 sh

Individual projects in Speech that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies or position papers. The nature of the course permits advanced graduate students to pursue areas of Speech not covered by present offerings.

I 1506 600 THESIS (SPEECH AND THEATER)

4 sh

Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project. Student should register for the semester in which work will be completed. Written permission for registration from the Graduate Advisor is required.



NON-DEGREE POST-BACCALAUREATE POST MASTER OF ARTS APPROVED CERTIFICATION PROGRAMS

Chairperson: Dr. Catherine Becker

Certification Advisor: Ms. Marcella P. West

I. TEACHER CERTIFICATION

A student with a baccalaureate degree may receive a New Jersey teaching certificate, and a fully certified teacher may obtain additional teaching field endorsements or advanced certification while attending Montclair State College. (See list of areas on page 243.) Students planning to enter the Approved Teacher Certification Program must follow the prescribed admission procedures described below. Upon successful completion of an approved program, the student will be recommended to the New Jersey Department of Education for a teaching certificate. Students interested in teaching outside of New Jersey should seek information from the appropriate state authorities before contacting the certification advisor or any departmental advisor.

ADVISEMENT

All general questions regarding certification, requests for specific information concerning procedures and courses applicable toward approved initial certification programs available at Montclair State College may be directed to Ms. Marcella P. West, (201) 893-4139 in the School of Professional Studies. Students seeking counseling may make an appointment with the Certification Advisor. Students should call ahead for an appointment.

ADMISSIONS

Those interested in the Post-Baccalaureate/Post M.A. Approved Certification Programs may obtain an application from the College Admissions Office, (201) 893-5182 or 5165, or upon request, from the Certification Advisor's office. Upon acceptance, a student is assigned to a Certification Advisor who will work out with the Faculty (teaching-field) Advisor a formal program of studies. Continuous advisement is available and expected for students in the Approved Teacher Certification Programs.

The Admissions Office will expect to receive from each applicant in the Approved Teacher Certification Program the following information:

A non-degree post-baccalaureate application completely filled out
Teaching certificate where appropriate

A copy of an official transcript from each college and university attended

The Certification Advisor, who then receives this completed application, will, using departmental forms, request three recommendations from individuals who are aware of the applicant's scholastic aptitude and character, and are able to give evidence of the applicant's interest in community affairs and teaching. In addition, a demonstration of competence in Speech will also be required before the applicant is fully admitted to a Teacher Certification program. It should be noted that each department has requirements, such as grade point averages, which have been determined according to College procedures, and which will be followed in determining eligibility for admittance.

TEACHER CERTIFICATION PROGRAM REQUIREMENTS

Requirements for certification are in the process of revision. Students are urged to contact the Certification Advisor to verify requirements. Requirements listed in this catalog are subject to change without notice.

General Education

Academic background requires a minimum of forty-five semester hour credits in General Education including study in at least four of the following areas: English, Mathematics, Science, Social Science, Fine and Practical Arts, Foreign Languages, Music and Philosophy.

Professional Education

A. Prerequisites

2001 101	General Psych. I—Human Growth & Development	3 sh
0829 410	Field Experience in Education	1-3 sh
(Speech Proficiency Requirements)		

Details provided by Education Advisor
(Physiology/Hygiene Requirements)

B. Professional sequence

	Major Departmental Methods Course	3 sh
2001 200	Education Psychology	3 sh
0829 400	Teacher, School and Society	3 sh
0821 520	Development of Educational Thought	3 sh
0829 411	Supervised Student Teaching or	8 sh
0829 414-5	In-Service Supervised Teaching	
Co-requisite with all Student Teaching Experiences		
0829 401	Senior Field Experience and	1 sh
0829 402	Seminar in Professional Education	1 sh

0830 407	Developmental Reading: Principles and Techniques I	3 sh
0830 408	Developmental Reading: Principles and Techniques II	3 sh

C. Teaching Field (Must be selected with Departmental approval)

Note:

- 1) The Field Experience in Education must be completed in a semester prior to the semester in which Student Teaching is desired.
- 2) All applicants filing for admission to the Approved Certification and/or M.A.T. Programs must fulfill the course requirement in the Human and Intercultural Relations area for initial Teacher Certification. The course taken to fulfill this requirement must be selected from the approved courses published each semester by the Registrar in the Schedule of Courses Booklet for registration.

D. Supervised Student Teaching

Students who have been admitted to Teacher Education and who are eligible for Student Teaching must file an application the semester prior to the semester in which Student Teaching is desired. Application procedures must be completed by:

September 15 for Student Teaching in the Spring Semester

March 15 for Student Teaching in the Fall Semester

All appropriate department and professional education courses must be completed prior to filing application for Student Teaching. This normally would include 9-12 semester hours at Montclair State College, including Methods in teaching field.

(Note: There is a combined Teacher Certification and Master of Arts in Teaching (MAT) Program available; information may be obtained through the Department of Curriculum and Teaching as described earlier in this catalog.)

I. Certification Areas

- A. Business Education: General Business Studies and Accounting, General Business and Secretarial Studies, General Business and Distributive Education
- B. Communication Sciences and Disorders: Speech Correction, Deaf and Hard of Hearing, Teacher of the Handicapped
- C. English
- D. Art
- E. Foreign Languages (French, German, Italian, Latin, Russian*, Spanish)
- F. Health and/or Physical Education
- G. Home Economics
- H. Industrial Arts: Industrial Arts (academic background), Industrial Arts (experience background), Vocational/Technical Education
- I. Mathematics
- J. Music

- K. Nursery School Education-preschool, Kindergarten
- L. Science (Biology*, Chemistry*, Geoscience*, Physics*)
- M. Social Studies
- N. Speech and Theater

II. Advanced Certification (Post-Masters)

State certification is available in the following non-teaching educational specializations:

- A. Administration and Supervision: Supervisor (MA + 15 sh in appropriate course work), Principal, Superintendent
- B. Learning Disabilities Teacher Consultant
- C. Student Personnel Services
- D. Educational Media Specialist
- E. Reading Specialist

III. Other Fields/Endorsements

Non-degree programs leading to state certification are available in the following areas:

- A. Associate Media Specialist
- B. Bilingual/Bicultural
- C. Coordinator Industrial Education
- D. Reading*
- E. Psychology*
- F. School Business Administrator
- G. School Psychologist
- H. School Social Worker
- I. Teacher-Coordinator, Cooperative Vocational-Technical Education
- J. TESL (Teaching of English as a Second Language)*

*Available for second teaching fields only.

EDUCATIONAL PLACEMENT

The Office of Student Teaching also offers an educational placement service. Students completing at least 12 credits at Montclair State College are eligible to register for this service. Further information can be secured from Mrs. Beverly McHugh, Acting Director of Student Teaching and Educational Placement, (201) 893-4262.

DIRECTORY

GRADUATE ADVISORS

	Office	Tele.
Administration and Supervision: <i>Dr. Anne C. Castens</i>	Chapin Hall 102	201-893-518.
*Educator Trainer (Training Personnel)		
Adult Continuing Education: <i>Prof. Raymond J. Ast, Jr.</i>	848 Valley Road	4355
Biology: <i>Dr. Larry Cribben</i>	Mallory Hall 252D	5107
Business Administration: <i>Michael A. Puglisi</i> , MBA director	Morehead Hall 103	4306
*Accounting		
*Business Economics		
*Finance		
*Management		
*Marketing		
*Quantitative Analysis		
Business Education: <i>Dr. Albert Rossetti</i>	College Hall 302	7033
Chemistry: <i>Dr. Joseph F. Becker</i>	Richardson Hall 345	7166
Communication Sciences and Disorders		
*Audiology: <i>Dr. Michael Lindenman</i>	Speech Building 102	4226
*Early Childhood Special Education: <i>Dr. Shirley Zeitlin</i>	Speech Building 119B	4226
*Hard of Hearing and Deaf: <i>Dr. Michael Lindenman</i>	Speech Building 102	4226
*Learning Disabilities: <i>Dr. Shirley Zeitlin</i>	Speech Building 119B	4226
<i>Dr. Warren Heiss</i>	Speech Building 103	4227
*Speech-Language Pathology: <i>Dr. Elaine Barden</i>	Speech Building 112	4227
<i>Dr. Edward Shulman</i>	Speech Building 106	4227
<i>Dr. Gerald Woolf</i>	Speech Building 101	4227
Computer Science: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
Counseling and Guidance		
*Human Services: <i>Dr. Arlene King</i>	Chapin Hall 318	5175
Educational Psychology: <i>Dr. Moira K. LeMay</i>	Russ Hall 13	7387
*Behaviorally Disturbed: <i>Dr. Walter R. Duryea</i>	Russ Hall 232	7375
*Human Sexuality: <i>Dr. Katherine Ellison</i>	Russ Hall 332	7380
English and Comparative Literature: <i>Dr. Lee Khanna</i>	Partridge Hall 467	201-893-7324
Environmental Studies: <i>Dr. W. Augustus Rentsch</i>	Russ Hall 122	4188
*Environmental Education		
*Environmental Health		
*Environmental Management		
*Environmental Science		
Fine Arts: <i>Dr. Peter G. Barnet</i>	Calcia Fine Arts Bldg. 112	4140
*Art History		
*Fine Arts Education		
*Studio		
*Visual Arts		
French: <i>Prof. Madeleine Sergent</i>	Partridge Hall 423	7423
Geoscience: <i>Dr. Charles L. Hamilton</i>	Mallory Hall 252N	7273
Health Education: <i>Dr. Harry H. Hoitsma</i>	College Hall 305	4154
Home Economics: <i>Dr. Katharine B. Hall</i>	Finley Hall 111	4171
*Family Relations/Child Development		
*Home Economics Education		
*Home Management/Consumer Economics		
Industrial Education & Technology: <i>Dr. George A. Olsen</i>	Finley Hall 220	4165
Mathematics: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
*Computer Science		
*Mathematics Education		
*Pure and Applied Math		
*Statistics		

Music: <i>Prof. John Girt,</i>	Life Hall—Gallery One 213A	4347
*Music Education: <i>Dr. Ruth Rendleman</i>	McEachern Music Building 4	7220
*Performance		
*Theory Composition		
Physical Education: <i>Dr. Richard W. Tews</i>	Panzer School Center	201-893-7090
Psychology: <i>Dr. Moira K. LeMay</i>	Russ Hall 13	7387
*Industrial and Organizational Psychology		
Reading: <i>Dr. Joseph P. Brunner</i>	College Hall 105	7191
<i>Dr. Maria Schantz</i>	College Hall 105	4247
Social Sciences: <i>Dr. Richard J. Barker</i>	Russ Hall 213	5261
*Anthropology: <i>Dr. Bertha B. Quintana</i>	Russ Hall 219	4119
*Economics: <i>Dr. Harold Flint</i>	Russ Hall 402	7403
*Geography: <i>Prof. Bertrand P. Boucher</i>	Russ Hall 309	5259
*History: <i>Dr. Richard J. Barker</i>	Russ Hall 213	5261
*Political Science: <i>Dr. George T. Menake</i>	Russ Hall 326	4238
*Sociology: <i>Dr. Barbara Chasin</i>	Russ Hall 316	7224
*Urban Studies: <i>Prof. Bertrand P. Boucher</i>	Russ Hall 309	5259
Spanish: <i>Dr. Robert McCormick</i>	Partridge Hall 446	7509
Speech and Theater: <i>Dr. Gerald L. Ratliff</i>	Life Hall 128A	4313
*Public Media Arts (Broadcasting)		
*Speech/Theater Education		
*Technical Theater, Acting and Directing		
Teaching: <i>Dr. Susie Boyce</i>	Chapin Hall 214	5187
<i>Dr. Wendy Oxman</i>	Chapin Hall 203	5197
*Teaching Middle School Philosophy:		
<i>Dr. Ann Margaret Sharp</i>	IAPC Trailer	4277
<i>Dr. Matthew Lipman</i>	IAPC Trailer	4277
*Area of Concentration		

CHAIRPERSONS

Adult Continuing Education: <i>Prof. Raymond J. Ast, Jr.</i>	860 Valley Rd.	201-893-4355
Anthropology: <i>Dr. Bertha A. Quintana</i>	Russ Hall 219	4119
Biology: <i>Dr. J. Michael McCormick</i>	Mallory Hall 252A	4397
Business Administration: <i>Michael A. Puglisi, MBA director</i>	Morehead Hall H-103	4306
*Accounting, Law & Taxation: <i>Prof. Lee Primiano</i>	Morehead Hall 209A	4174
Economics: <i>Prof. Frances F. Scher</i>	Russ Hall 208	7401
Finance & Quantitative Methods: <i>Dr. Harvey Blumberg</i>	Morehead Hall 203C	4381
Management: <i>Prof. Andrew A. Taaffe</i>	Morehead Hall 208G	4280
Marketing: <i>Dr. Ralph A. DiPietro</i>	Morehead Hall 201A	4254
Business Education: <i>Dr. Albert D. Rossetti</i>	College Hall 302	7033
Chemistry: <i>Dr. John L. Isidor</i>	Richardson Hall 354	5140
Communication Sciences and Disorders:		
<i>Dr. Joseph S. Attanasio</i>	Speech Building 105	4232
Counseling, Human Services and Guidance: <i>Dr. Arlene King</i>	Chapin Hall 318	5175
Curriculum and Teaching: <i>Dr. Catherine Becker</i>	Chapin Hall 218	7126
Educational Leadership: <i>Dr. Anne C. Castens</i>	Chapin Hall 102	5183
English and Comparative Literature:		
<i>Dr. Thomas E. Benediktsson</i>	Partridge Hall 407	7304
Environmental, Urban and Geographic Studies:		
<i>Dr. David Robertson</i>	Russ Hall 308	5258
Fine Arts: <i>Dr. Charles H. Martens</i>	Calcia Fine Arts Bldg. 110	7296

French: <i>Dr. Helene Klibbe</i>	Partridge Hall 420	4283
Geoscience: <i>Prof. Richard H. Hodson</i>	Richardson Hall 252	7264
Health Professions: <i>Dr. Harry H. Hoitsma</i>	College Hall 305	4154
History: <i>Dr. Richard J. Barker</i>	Russ Hall 213	5261
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Recommended Travel Routes. MSC is on Valley Road and Normal Avenue, Upper Montclair (turn at the light). The college is one mile south of the junction of Routes 3 and 46 on Valley Road.

BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Ave. light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right.

Route 3: Valley Road, Montclair exit (at Route 46 junction), south for approximately one mile to Normal Ave. light, turn right.

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George Washington Bridge: Route 80 to Garden State Parkway South.

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New York City (by train): Take PATH service to Hoboken, transfer to Conrail, and get off at Montclair Heights Station at southwest corner of campus.

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MONTCLAIR STATE COLLEGE



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- ① Emergency Phone
 ② Shuttle Bus Stop

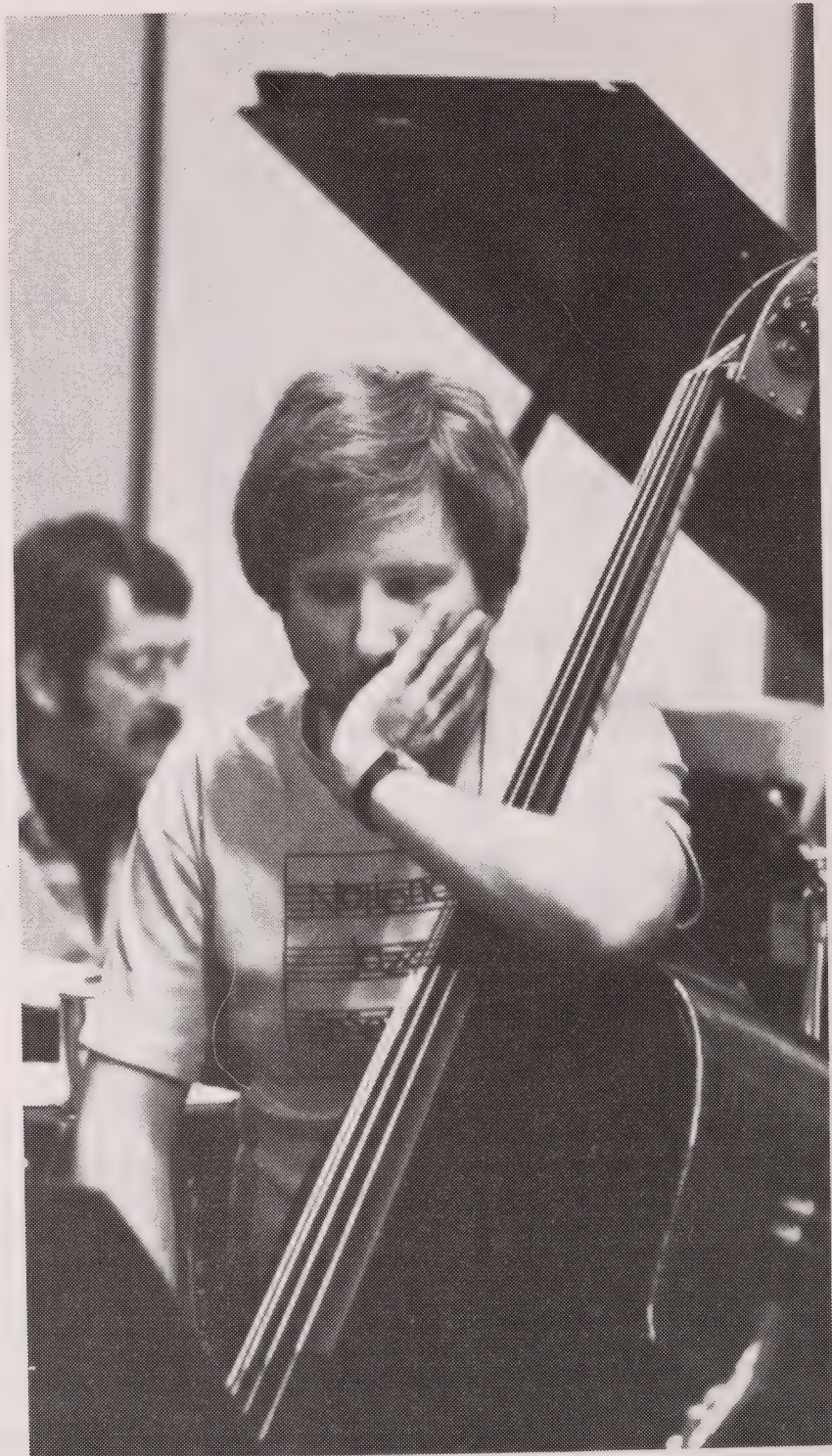
BUILDINGS

A	Life Hall
	Memorial Hall
	Fine and Performing Arts
C	College Hall — Administration & Admissions
D	Gilbreth House
E	Temporary Classroom Annex
F	Finley Hall
G	Partridge Hall — Humanities
H	Morehead Hall
	Business Administration
J	Student Center
K	Speech Building
L	Calcia Fine Arts Building
M	McEachern Music Building
P	Panzer School Center — Gymnasium and Swimming Pool
R	Drop-in Center
S	Sprague Library
V	Mallory Hall
W	Richardson Hall — Mathematics and Science
Y	Adult Education
AA	Chapin Hall — Professional Studies
	Campus Police
BB	Russ Hall — Social Sciences
CC	Freeman Hall — Student Housing
DD	Stone Hall — Student Housing
EE	Webster Hall — Student Housing
FF	Bohn Hall — Student Housing

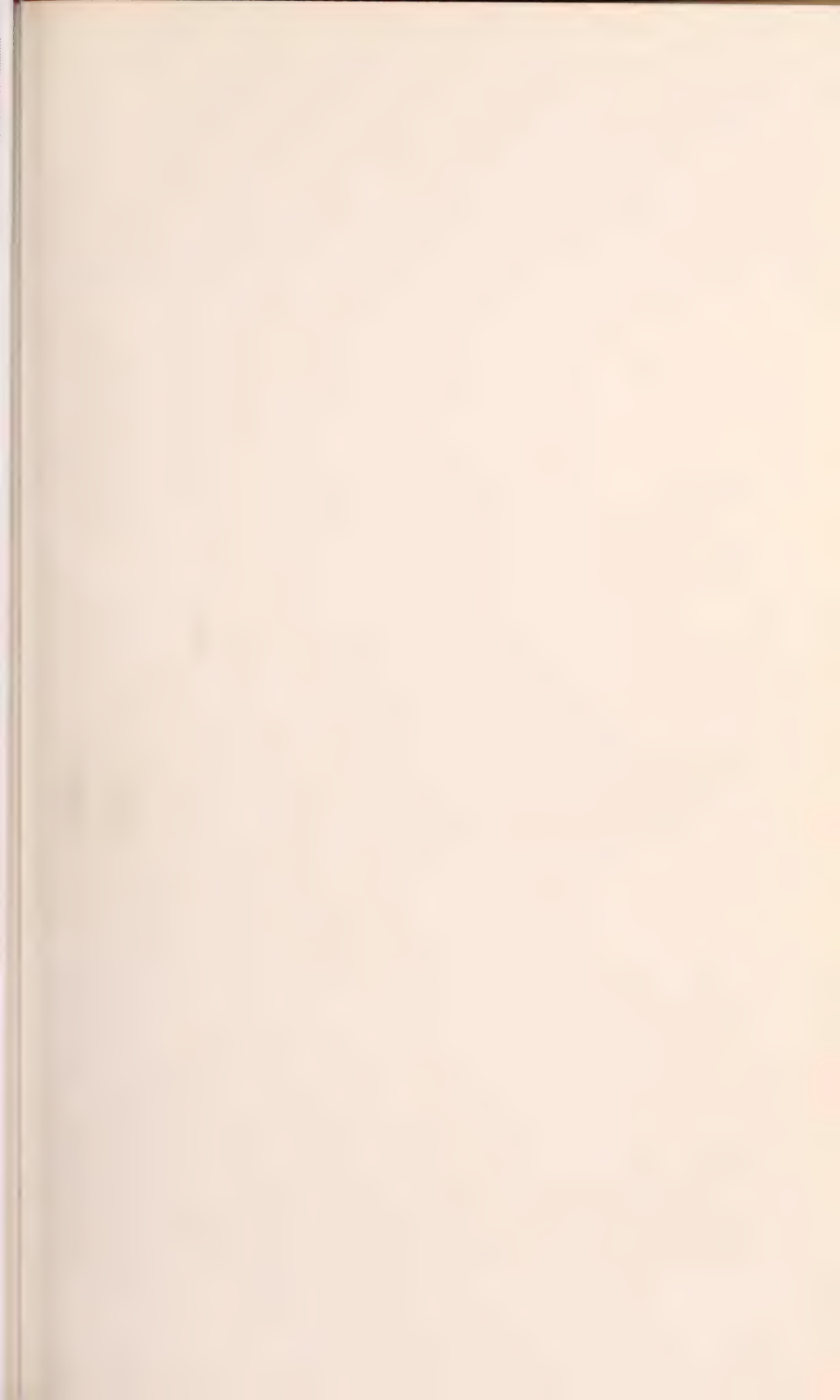
GG	Maintenance Building
HH	Power Laboratory
JJ	Heating Plant
LL	Blanton Hall — Student Housing & Health Center
MM	Psycho-Educational Center
RR	Clove Rd. Apts. (100) — Student Housing
SS	Clove Rd. Apts (200) — Student Housing
TT	Clove Rd. Apts. (300) — Student Housing
UU	Van Reyper/Bond House
VV	Adult Education Annex
XX	Recreation Building
12	Industrial Arts Dept. Faculty and Staff
13	Student
14	Faculty and Staff
15	Disabled
16	Visitor
17	Student
18	Student Housing Staff
19	Student Housing Staff
20	Student
21	Student
22	Student
23	Student
24	Student
25	Student
26	Student
27	Student
28	Student
29	Student
30	Student

PARKING

1	Faculty and Staff
2	Faculty and Staff
3	Physical Education and Athletic Dept.
4	Faculty and Staff
5	Student Housing Staff
6	Visitor
7	Faculty and Staff
8	Faculty and Staff
9	Faculty and Staff
10	Library Faculty and Staff
11	Faculty and Staff



2011-5-24







Montclair State College

Upper Montclair, NJ 07043

Graduate Catalog
1985-1987

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Montclair State College is an equal opportunity/affirmative action institution and does not discriminate on the basis of sex, race, color, religion, national origin, age, or physical capability in the operation of its educational program or activities.

Inquiries relating to equal opportunity/affirmative action issues may be directed to the offices of Student Affairs or Equal Opportunity/Affirmative Action in College Hall.

The Graduate Catalog of Montclair State College is published biennially and presents announcements of general information, general academic regulations, and the College's academic program extant at the date of publication. The College reserves the right to change its announcements, regulations or requirements at any time without notice or obligation whenever such action is deemed appropriate and necessary. Failure to read this publication does not excuse students from the requirements and regulations described herein.

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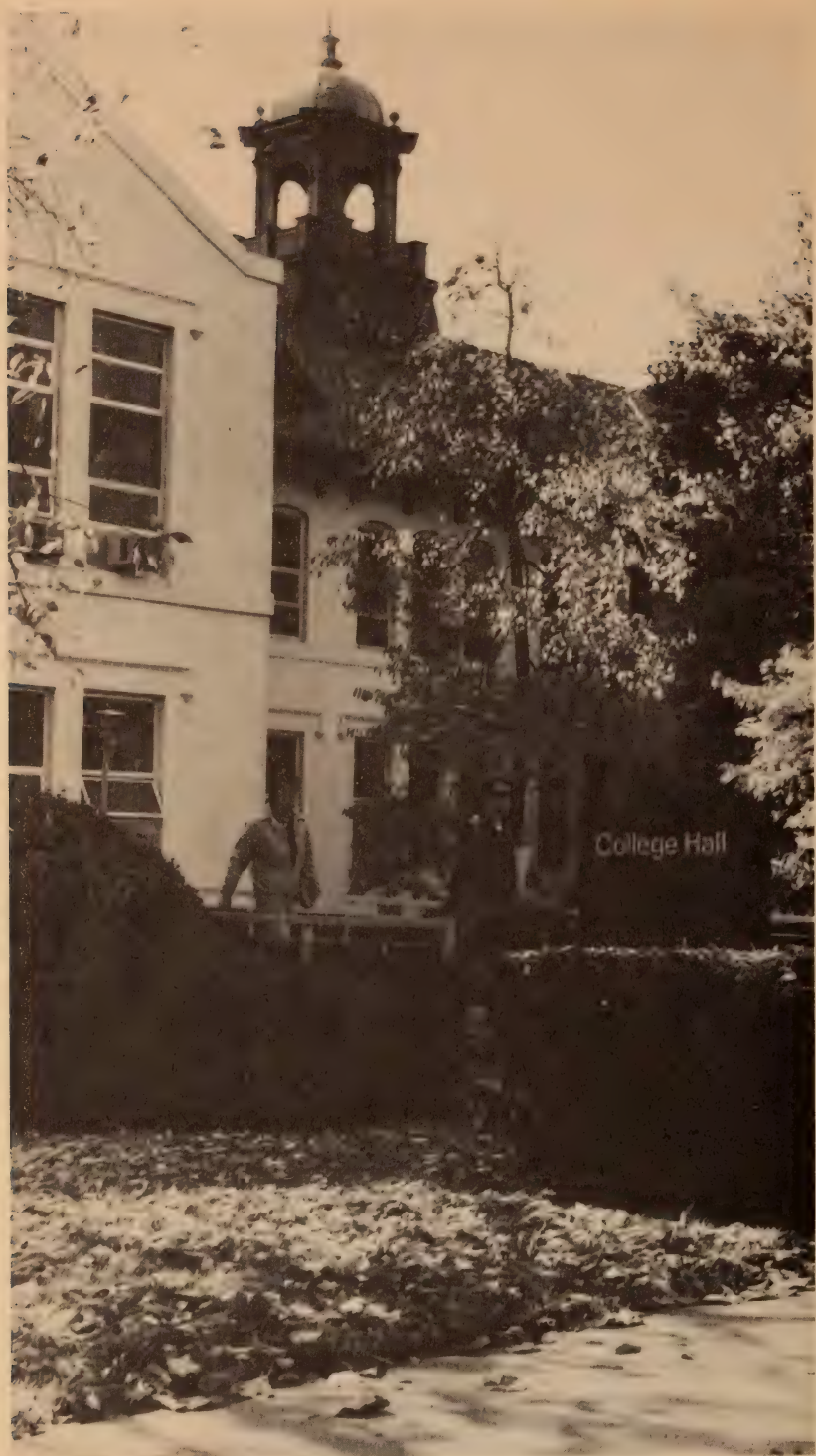


Montclair
State
College

UPPER MONTCLAIR, NJ 07043

Graduate Catalog
1985-1987

GRADUATE STUDIES OFFICE TELEPHONE
(201) 893-5147



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DEGREES OFFERED**

MASTER OF ARTS

Administration and Supervision

- *Educator Trainer (Training Personnel)
- Supervisor/Principal Certification

Biology

Business Education

Chemistry

Communication Sciences and Disorders

- *Audiology
- *Early Childhood Special Education
- *Hard of Hearing and Deaf
- *Learning Disabilities
- *Speech-Language Pathology

Computer Science

Counseling and Guidance

- *Human Services

Educational Psychology

- *Behaviorally Disturbed
- *Human Sexuality

English and Comparative Literature

Environmental Studies

- *Environmental Education
- *Environmental Health
- *Environmental Management
- *Environmental Science

Fine Arts

- *Fine Arts Education
- *Studio
- *Visual Arts

French

Geoscience

Health Education

Home Economics

- *Family Relations/Child Development
- *Home Economics Education
- *Home Management/Consumer Economics

**Area of Concentration*

***Please refer to the index for page numbers on specific programs.*

Industrial Education and Technology

Mathematics

- *Computer Science
- *Mathematics Education
- *Pure and Applied Mathematics
- *Statistics

Music

- *Music Education
- *Performance
- *Theory Composition

Physical Education

Psychology

- *Industrial and Organizational Psychology

Reading

Social Sciences

- *Anthropology
- *Economics
- *Geography
- *History
- *Political Science
- *Sociology
- *Urban Studies

Spanish

Speech and Theatre

- *Public Media Arts (Broadcasting)
- *Speech and Theatre Education
- *Technical Theatre, Acting and Directing

MASTER OF ARTS IN TEACHING

- *Initial Certification
- *Middle School Philosophy

MASTER OF BUSINESS ADMINISTRATION**

Business Administration

MASTER OF EDUCATION

**Area of Concentration*

***Please refer to the index for page numbers on specific programs.*

GENERAL INFORMATION

Montclair State College was established in 1908 and is a coeducational college of liberal arts, sciences, pre-professional and professional programs. The first Master of Arts degrees were awarded in 1933. Along with quality academic programs the College offers extensive cultural and athletic opportunities. There are 475 full-time faculty, 79 percent of whom have doctoral degrees or other appropriate terminal degrees. Montclair State College has been designated as a center of influence for the Fine and Performing Arts in northern New Jersey. As an equal opportunity institution, Montclair State College seeks applications from all qualified students regardless of race, creed, national origin, or sex.

ACCREDITATION AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. The National Council for the Accreditation of Teacher Education has granted accreditation for the Master of Arts in Teaching Program in the Department of Curriculum and Teaching, the School Principal Program in the Department of Educational Leadership, and the Guidance Counselor Program in the Department of Counseling, Human Services, and Guidance.

The College is a member of the American Council on Education, American Association of State Colleges and Universities, American Association of Colleges for Teacher Education, New Jersey Association of Colleges for Teacher Education, Council of Graduate Schools in the United States, Northeastern Association of Graduate Schools, North American Association of Summer Sessions, and New Jersey Association of Colleges and Universities. Women graduates of the College are accepted for membership in the American Association of University Women.

Other academic accreditations include the National Association of Schools of Music (Department of Music, School of Fine and Performing Arts), the American Bar Association (minor in Paralegal Studies, Center for Legal Studies, School of Humanities and Social Sciences), and the American Home Economics Association (Department of Home Economics, School of Professional Studies). The American Chemical Society has approved the programs of the Department of Chemistry within the School of Mathematical and Natural Sciences.

FUNCTIONS

Montclair State College serves three broad functions: instruction, research and service.

Instruction: The College offers graduate programs for the preparation of professional personnel in the areas of administration, biology, business education, chemistry, geoscience, audiology, art, computer science, counseling

and guidance, educational psychology, environmental studies (education, management, science), learning disabilities, health, home economics, industrial studies, mathematics, music, physical education, psychology, reading, special education, speech pathology, speech and theatre arts, among others. It is possible also to obtain traditional advanced liberal arts training in English and comparative literature, French, Spanish and the social sciences. Continuing education both on and off campus for other than degree purposes is also part of the function.

Research: Research and scholarship by the faculty and staff are encouraged by the College to constantly add to the knowledge on which degree programs are based, and to contribute to the general advancement of human knowledge.

Service: The service function involves consultancies to business, education and government agencies. Included also are such activities as sponsored workshops, publications, surveys and research, and participation as committee members and officers in appropriate local, state and national organizations.

ACADEMIC ORGANIZATION

Montclair State College's academic organization includes five schools. Courses are offered through the Schools of Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies.

The Graduate Council is the primary All-College body for the development of graduate policy and curriculum advisement. Its decisions and recommendations are made directly to the Vice President for Academic Affairs. Consistent with policies established by the Board of Trustees, the Graduate Council:

- (1) recommends general graduate admission requirements,
- (2) recommends guidelines for the admission of students to graduate programs,
- (3) recommends guidelines for the admission of faculty to graduate faculty status,
- (4) reviews and makes recommendations about new graduate programs or any revisions in graduate programs,
- (5) initiates discussion on and/or reacts to any and all matters affecting graduate faculty, students and programs.

Voting members of the Council include two School Deans appointed by the Vice President for Academic Affairs; two elected faculty from each of the Schools of Business Administration, Fine and Performing Arts, and Mathematical and Natural Sciences; four elected faculty from each of the Schools of Humanities and Social Sciences, and Professional Studies; and one graduate student elected from each School.

Ex officio (non-voting) members of the Council include a representative from the Office of the Associate Vice President for Academic Affairs, the three School Deans not appointed as voting members, the Associate Di-

rector of Graduate Studies, the Director of the Library, and a representative of the Faculty Bargaining Unit.

From its voting membership, the Council elects a chairperson and secretary.

SCHOOL OF BUSINESS ADMINISTRATION

Dean: Suresh A. Desai, Ph.D.

Consisting of six separate departments,

Accounting, Law and Taxation

Business Education and Office Systems Administration

Economics

Finance and Quantitative Methods

Management

Marketing

the School of Business Administration provides the following graduate degree opportunities:

Master of Business Administration (MBA)

Master of Arts in Business Education

Master of Arts in Social Science: Concentration in Economics

MASTER OF BUSINESS ADMINISTRATION

The goal of the Montclair MBA is to prepare management generalists who have the knowledge, techniques and attitudes to analyze complex issues, establish logical goals, evaluate alternatives, form reasoned judgments, and effectively implement chosen options. While the development of analytical capacities is critical, the program's structure emphasizes the development of capacities that are tempered by a concerned awareness of obligations to the greater social environment.

The program stresses the theoretical foundations of management oriented disciplines, practical applications of research findings, and current managerial practices. This blend of theory and prevalent practice builds a strong foundation for immediate application as well as post-graduate professional growth.

MASTER OF ARTS IN BUSINESS EDUCATION

The Master of Arts program in business education prepares teachers for administrative, supervisory, and specialized work or master teaching in the field of business education. In order to attain these objectives, the program design offers considerable flexibility enabling candidates to explore advanced areas of study in accordance with their own background, experience, achievement, and professional aspirations. With careful course selection and planned use of the program's free electives, candidates will qualify for New Jersey certification in Administration and Supervision in Business Education and/or Cooperative Office Education.

MASTER OF ARTS IN SOCIAL SCIENCE: CONCENTRATION IN ECONOMICS

The Master of Arts in social science: Economics Concentration provides a study of economic theory within a programmatic framework that emphasizes the importance and interdisciplinary nature of the social sciences. Where appropriate, business oriented applications are developed; however, the primary purpose of the program is to develop a knowledge of economics which enhances the student's understanding of the formulation, evaluation and implementation of public decision making. Although an undergraduate major in Economics is not a prerequisite for the master's degree in the social sciences program, candidates must present an undergraduate record with at least 30 semester hours in the social sciences and/or history. Candidates who do not meet minimum requirements may be required to enroll in certain prerequisite courses which do not provide graduate credit.

SCHOOL OF FINE AND PERFORMING ARTS

Dean: Donald A. Mattran, M. Mus.

Montclair State College is a designated center of influence for the fine and performing arts. Its School of Fine and Performing Arts offers graduate programs in fine arts, music, speech, theatre and communications. In addition, the School includes a Music Preparatory Division, which offers instruction to children from age 3 through high school, and the office of Cultural Programming which presents major dance, music, theatrical and literary events. The School also coordinates and supports three major art galleries.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service or management. The School presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work, and experimentation in the arts.

Departments and programs within the School are:

Fine Arts

Fine Arts Education*

Studio*

Visual Arts*

Music

Music Education*

Performance*

Theory Composition*

Speech and Theatre

Public Media Arts (Broadcasting)*

Speech/Theatre Education*

Technical Theatre, Acting and Directing*

**Area of Concentration*

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Dean: Philip S. Cohen, Ph.D.

Graduate programs in the School of Humanities and Social Sciences are designed to accomplish four objectives:

- (1) to provide the opportunity for the student to acquire advanced knowledge in one of its major areas of instruction,
- (2) to acquaint the student with the interrelatedness of the various fields within the Humanities and Social Sciences as well as their relationship to other disciplines,
- (3) to familiarize the student with the particular methodology and problems of his or her field,
- (4) to provide the student with the background to do creative and independent work and research during and after his or her graduate career.

The School of Humanities and Social Sciences comprises a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in these areas whether he or she is teaching or working in government, industry or the professions.

The departments within the School of Humanities and Social Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects.

All of the programs provide excellent preparation for those wishing to go on to more advanced degrees.

Departments and programs within the School are:

Anthropology

Social Sciences

Communication Sciences and Disorders

Communication Sciences and Disorders

Audiology*

Early Childhood Special Education*

Hard of Hearing and Deaf*

Learning Disabilities*

Speech-Language Pathology*

Economics

Social Sciences

English

English and Comparative Literature*

Environmental, Urban & Geographic Studies

Program in Environmental Studies

Environmental Education*

**Area of Concentration*

- Environmental Health*
- Environmental Management*
- Environmental Science*
- Program in Social Sciences
 - Geography*
 - Urban Studies*
- French
- History
 - Social Sciences
- Political Science
 - Social Sciences
- Psychology
 - Program in Educational Psychology
 - Behaviorally Disturbed*
 - Human Sexuality*
 - Program in Psychology
 - Industrial and Organizational Psychology*
- Sociology
 - Social Sciences
- Spanish/Italian
 - Spanish*

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Dean: Richard A. Lynde, Ph.D.

The graduate programs offered within the School of Mathematical and Natural Sciences are designed to provide specialization and depth of knowledge significantly beyond that provided in our undergraduate programs. The programs are flexible enough to meet the needs of individuals in business and industry and secondary instruction as well as those intending to continue their studies in Ph.D. programs or professional schools.

The high density of technically oriented business and industry in the North Jersey area provides the School with unique resources and opportunities for study and research at the graduate level as well as employment opportunities for graduates of our programs.

Departments and programs within the School are:

- Biology
- Chemistry
- Geoscience
- Mathematics and Computer Science
 - Program in Computer Science
 - Program in Mathematics
 - Computer Science*
 - Mathematics Education*
 - Pure and Applied*
 - Statistics*

**Area of Concentration*

SCHOOL OF PROFESSIONAL STUDIES

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies includes eight departments, each of which offers the Master of Arts degree in a variety of fields leading to and strengthening skills needed for professional careers in private industry, government agencies, non-profit organizations, and public and non-public schools.

The School has responsibility for coordinating the non-degree post-baccalaureate teacher certification program. A Master of Arts in Teaching (M.A.T.) program is also available to those seeking initial certification. The School has a commitment to offering graduate programs to urban school personnel through the Newark Teacher Center and Project THISTLE, and provides a certification program in alcoholism counseling.

Arrangements can be made to offer graduate programs to employees of public schools and other organizations on site.

In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments and programs within the School are:

- Counseling, Human Services and Guidance
 - Counseling and Guidance
 - School Social Work
 - Human Services*
- Curriculum and Teaching
 - M.A.T.
 - Middle School Philosophy*
 - M. Ed.
 - Post-baccalaureate Certification
- Educational Foundations
- Educational Leadership
 - Administration and Supervision
 - Educator Trainer Program (Training Personnel)*
 - Reading
 - Certification Programs for: Media Specialist, Principal,
Supervisor, Reading Specialist
- Health Professions
 - Health Education
- Home Economics
 - Family Relations/Child Development*
 - Home Economics Education*
 - Home Management/Consumer Economics*
- Industrial Studies
 - Industrial Education and Technology
- Physical Education, Recreation and Leisure Studies
 - Physical Education

**Area of Concentration*



ACADEMIC FACILITIES

The College is located on a 200-acre campus in Upper Montclair, New Jersey, 14 miles west of New York City. In addition to classrooms and studios, our facilities provide two modern theaters; a recital hall; a theater arts workshop; science and language laboratories; food laboratories; clothing laboratory in Home Economics; auto and power, energy, metals, and plastics laboratories in Industrial Studies; human performance laboratory in Panzer School Center and on-campus housing for approximately 2,000 men and women.

COMPUTER CENTER

The Computer Center provides a wide variety of services to the College Community through the operation of two major facilities. The College Hall location provides services through a Burroughs B1955 computer, and the Richardson Hall location provides services through a DATA100 Remote Job Entry Station and various time sharing terminals. Both locations are connected through high speed communications facilities to the New Jersey Educational Computer Network (NJEEN) where most of the actual computing is performed. NJECN, a corporation owned by the State Colleges of New Jersey, provides an extensive array of computer services through the operation of an IBM 370/168, and an IBM 3033.

CURRICULUM RESOURCE CENTER

The Curriculum Resource Center, located in Chapin Hall, is a collection of materials for use by teachers, curriculum committees and others engaged in planning educational programs. The Center's collection includes textbooks, curriculum guides from New Jersey schools and schools across the nation, learning activity packages, professional books, computers and computer software. The Center maintains evening hours for the convenience of graduate students and teachers. For further information, contact the director at (201) 893-5220.

LABORATORY AND SPECIAL FACILITIES

Extensive well-equipped laboratories support both instruction and research in the mathematical and natural sciences. Specialized facilities and equipment provide opportunities for significant thesis research in a number of areas of current interest.

Studios, workshops, exhibition spaces, performance, practice and rehearsal facilities support the instruction areas in the School of Fine and Performing Arts.

A modern language laboratory serves the needs of students who seek to improve their language skills.

Appropriate facilities are also available for students enrolled in the Experimental Psychology course.

LIBRARY

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million items, with more than 300,000 books on the shelves, 2,500 periodical subscriptions, 30,000 government documents, and more than 700,000 items on microform. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, records, audiocassettes, filmstrips, and soundslide sets. As a designated government depository, the library receives and makes available for public use thousands of federal and state publications. This comprehensive collection provides graduate research projects with appropriate support. The library belongs to networks METRO and NJALN which ensure access to other large libraries in the metropolitan area.

Each member of the professional library staff is an expert in both library science and a subject speciality. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians and are available to all graduate classes. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The introduction of computerized technology provides access to the library's holdings through an on-line system. Interlibrary loan uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line bibliographic searching is available to students and faculty. While these technological changes are important, the library's primary mission will always be the enhancement and support of the college's educational program through personal attention to each student's individual needs. Telephone (201) 893-4291.

MARINE SCIENCES CONSORTIUM

The facilities of the New Jersey Marine Sciences Consortium, including the field stations at Sandy Hook and Seaville, are available to Montclair State students. The consortium sponsors an extensive summer program of regular and independent study courses in the marine sciences at the graduate level.

MEDIA CENTER

The Center, located in College Hall, provides audio-visual materials, equipment and services for use by faculty and students for classroom instruction and presentation.

Videotaping equipment is available for use by faculty and staff, as is a closed circuit television studio with complementary equipment. Custom graphic and photographic production services exist that include slide copy, slide duplication, transparency production and graphic design. The staff of

the Center is available for consultation on audio-visual problems, for demonstration of audio-visual materials and methods, and for special teaching and training in the area of audio-visual education. Telephone (201) 893-4241.

PSYCHOEDUCATIONAL CENTER

The Center has been designed to train graduate students in the areas of audiology, special education, learning disabilities, school psychology and speech language pathology. It additionally serves the community by offering programs that suit the mutual needs of students and clients.

SPECIAL EDUCATION

The following academic courses of study at Montclair State College prepare graduate students to work with individuals who are experiencing difficulty with communication, learning or life adjustment: Audiology, Counseling and Social Work, Early Childhood Special Education, Learning Disabilities, Physical Education for the Disabled, Reading, School Psychology, Speech Pathology, Teacher of the Handicapped, Teacher of the Behaviorally Disturbed and Therapeutic Recreation. Consult the index for details about individual programs.

Students enrolled in these courses of study may receive part of their training on campus at the Psychoeducational Center. The Center operates an assessment component, Communication Disorders Clinic, Communication Disorders Demonstration Program, Parent/Infant Program, and Music Therapy Clinic.

TELEVISION CENTER

A well equipped Television Center is located in Life Hall, Room 104. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201) 893-4341.

ADMISSION AND MATRICULATION

To be admitted to graduate study at Montclair State College, an applicant must have a baccalaureate degree from an accredited college or university in the United States, or its equivalent from a foreign institution of higher education. An applicant must also have an appropriate academic background for the program or degree desired. To be matriculated in a particular degree program, the applicant must be accepted by the department offering that program.

Applicants are evaluated on several criteria (e.g., grade point average, national test scores, recommendations, interviews, essays, portfolios, auditions, etc.) to enable the College to identify those students who demonstrate the greatest promise of scholarly achievement and ability to benefit from their proposed program of study.

Applications/Enrolling in Graduate Classes: Montclair accepts applications at any time of the year and processes them as quickly as possible. However, if matriculation (the development of a detailed scholastic work program) prior to enrollment is important to you, then your application for graduate admission should be filed in time for all supporting documents to arrive in the Office of Admissions normally no later than April 1 for Summer Sessions, July 1 for the Fall Semester and November 1 for the Spring Semester. If your file is not completed in time for the semester you wish to attend, you may be granted a permit which allows you to register during the In-Person Registration period (for more information about such permits, see the next two paragraphs).

Students who wish to enroll in graduate courses prior to (or without) matriculating may receive a permit to register by presenting proof of their undergraduate degrees to the Office of Admissions any time prior to the end of the In-Person Registration period for the semester they wish to attend. This permission is valid for only one semester. To attend a subsequent semester you must file a complete application with all supporting documents.

A maximum of six completed credits may be allowed for degree credit prior to attaining matriculated or deferred matriculated status. This six credit total includes all transfer credits and non-degree credits taken at Montclair. You must meet all course prerequisites. Successful completion of these 6 semester hours does not guarantee admission into a degree or certification program.

Obtaining Graduate Applications and Graduate Information: To obtain applications contact: The Office of Admissions, College Hall 203, (201) 893-5182 OR The Office of Graduate Studies, College Hall 208, (201) 893-5148.

Whether enrolling as a matriculated, non-matriculated or visiting graduate student, it is *critical* that you receive advisement prior to registering for courses. For graduate information and/or to be directed to the appropriate advisor contact: *The Office of Graduate Studies*.

GENERAL REQUIREMENTS

Transcript: Two copies of an official transcript must be submitted from each college and university attended.

Graduate Record Examination (GRE): The GRE aptitude test is required of all students applying for admission to a degree program except for applicants to the MBA program who are required to take the Graduate Management Admission Test (GMAT) instead. Some departments also require the GRE advanced test in the applicant's proposed field of study and/or the Miller Analogies Test. Students should check the department statement in this catalog for specific requirements.

Students should make arrangements to have an official notification of their GRE test scores sent directly to the Office of Admissions/Graduate. Since it generally takes about six weeks for test scores to reach the College, students are advised to take the required test as soon as possible after applying for admission. Information about the GRE may be obtained from the Educational Testing Service, Princeton, New Jersey 08540, or from the Office of Graduate Studies at Montclair State College.

Recommendations: Recommendations from at least two persons who are qualified to evaluate the applicant's promise of academic achievement are required for admission to all degree programs.

Statement of Objective: All students applying for admission are asked to provide a statement outlining their goals and purposes in the graduate study they wish to pursue.

Teaching Certificate: A copy of an applicant's teaching certificate(s) is required of all students seeking admission to a program leading to advanced certification or certification in an additional field.

Acceptance Procedure: Final action on an application cannot be taken until all supporting credentials have been received in the Office of Admissions/Graduate. However, applicants whose transcript shows conferment of a bachelor's degree will be given permission to register on a non-degree basis.

Applicants who meet the College minimum standards for admission will be advised by letter to arrange a conference with the graduate advisor of the department in which the student wishes to study. The department advisor will evaluate the student's qualifications for acceptance into the program.

Matriculation: Students who are accepted into a degree program will be formally matriculated and given an official work program developed in conference with the graduate advisor. The student will receive official notification of matriculation from the Office of Graduate Studies.

Deferred Matriculation: Applicants with marginal qualifications or inadequate preparation may, upon recommendation of the department, be admitted to study on a conditional basis (deferred matriculation) with the understanding that eligibility for matriculation will be established in a manner prescribed by the department in which the student wishes to matriculate. Course work and other study undertaken to remedy the deficiency or to demonstrate the ability to do graduate-level work may be in addition to the regular program requirements.

Non-Degree Students: Individuals who have a baccalaureate degree and want to enroll in particular courses to satisfy personal interests without reference to matriculation in any degree or certification program may apply for admission as non-degree students. Applications for this status do not require the supporting credentials specified above for degree programs, except for the transcript showing possession of a bachelor's degree and the statement of objectives.

Admission on a non-degree basis does not imply acceptance in or eligibility for matriculation in any degree program.

Admission of Veterans: Veterans seeking admission to a graduate program should apply to the Veterans Administration for a certificate of eligibility and entitlement well in advance of the registration date. These forms may be obtained at the Veterans Office located in Annex E, Room 10.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes important that veterans clearly state their educational objectives on all appropriate forms.

To insure that the application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor.

Foreign Applicants: Foreign applicants should obtain an application from the Office of Admissions/Graduate, and return the completed form to the office at least one month prior to the normal deadline.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants for whom English is not a native language to take the Test of English as a Foreign Language, administered world-wide by the Educational Testing Service of Princeton, New Jersey. Scores from this test should reach the Office of Admissions/Graduate no later than the normal deadline.

Qualified Seniors: Montclair State College undergraduates with an academic average of at least 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work at the 500 level, if prior permission is granted.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Graduate Studies Office. Qualified undergraduates taking graduate courses for graduate credit must pay appropriate fees and tuition at the regular graduate student rates. Admission of an undergraduate to courses at the graduate level does not imply future acceptance into a graduate degree program.

Visiting Students: Graduate students matriculated at another college may register for courses during In-Person Registration. They must bring with them a form or letter of permission from the institution they are attending stating they are students in good standing. The current Schedule of Courses booklet, available in the Office of the Registrar, should be consulted for further details.

ACADEMIC POLICIES AND REGULATIONS

Course Load: Nine semester hours constitute a full-time course load. It is recommended that a student who is fully employed take no more than six semester hours of course work in any one semester. Graduate assistants are required to carry only 6 semester hours for full-time status.

Course Numbering and Scheduling: Selected courses numbered from 400 through 499 are senior-graduate courses. They may be taken for graduate credit only with the permission of the graduate advisor in the student's major department and only to the extent approved by regulations governing graduate studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be numbered from 400 through 499. Courses numbered below 400 are not acceptable for graduate credit.

Courses numbered 500 and above are open only to graduate students and last-term seniors with prior approval. Courses are scheduled in the late afternoon and evening during the fall and spring semesters. Summer Sessions graduate courses are scheduled both in the day and evening.

Restrictions for Graduate Credit: No credit is granted toward the Master of Arts degree for certain 400 level courses which are required for initial certification.

Courses taken ten or more years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree, except upon recommendation by the major department and approval of the appropriate academic dean.

No more than six semester hours of credit may be allowed for courses completed at Montclair State College prior to matriculation for the master's degree, except in specially designated programs.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the appropriate academic dean. A form for this purpose is available in the Graduate Studies Office and should be completed well before the transfer credit is needed.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that no course undertaken for graduate credit duplicates a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title.

Transfer Credit: A student may transfer six semester hours of graduate credit previously earned at an accredited college or university toward the Master of Arts degree at Montclair State College, provided the student obtains approval from the department graduate advisor at the time of admission, and provided that the credits were not previously applied to any degree. This approval must be noted on the student's work program. Grades below B are not accepted for transfer credit, nor are courses below graduate level in the originating institution.

Time Limit: Requirements for the Master of Arts degree must be completed within six years from the date of matriculation unless the appropriate academic dean approves an extension. Written applications for extension will be reviewed and evaluated by the Graduate Studies Office on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of application.

Grades and Standards: There are ten grades used at Montclair State College:

A—Excellent

B— Good

C— Fair

D— Poor

F— Academic failure; failure to submit written notice of withdrawal to Office of the Registrar; or withdrawal after semester mid-point.

IN Incomplete – Student has not completed the course and grade is withheld until work is performed and approved. Student must enter into a formal contract with the faculty member prior to the end of the semester, using the form available in the Office of the Registrar. If IN is not replaced with a final grade by May 1 for previous Fall semester and Winter Session or by December 1 for previous Spring semester and Summer Sessions, the grade automatically becomes F. Exceptions granted only upon petition to and approval of appropriate academic dean.

WD Student submits written notice of withdrawal from course to the Office of the Registrar by midpoint of semester.

NC No credit

AU Audit – to audit a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions.

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in addition to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the first three weeks of the semester.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.

9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

P Pass – not available to graduate students.

No graduate credit is allowed for courses completed with grades below C. In order to qualify for the master's degree, a student must have a cumulative grade point average of 3.00 based upon a possible 4.00 system. Students may repeat a grade of D or F with approval of the appropriate graduate advisor and the Graduate Studies Office.

Any matriculated student whose grades fall below the 3.00 cumulative grade point average will be placed on academic probation and will be given one semester, within one year from date of first notification of probationary status, to achieve the required average. Failure to obtain the required average within the prescribed period of time leads to final review which may result in the termination of matriculated status. Notice of such action will be sent to the student by the Graduate Studies Office after consultation with the departmental graduate advisor. A student may appeal such action in writing to the appropriate academic dean.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

Registration Procedure: All graduate students who were registered at Montclair State College during a semester will receive registration materials allowing them to register for the following semester by mail. New students who apply after the deadline for mail registration, or students not registered in the previous semester, must register in person.

Registration procedures, regulations and deadlines may be obtained from the Office of the Registrar, or from the Schedule of Courses book.

GRADUATION REQUIREMENTS

Program of Study: A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be required to satisfy prerequisites or special programmatic purposes.

Each student must pass a comprehensive examination in his/her field, either oral or written, or both with the approval of the graduate advisor and the Graduate Studies Office; a thesis may be substituted for all or part of the examination.

Candidates are also required to demonstrate their ability to execute and report on an independent research project or other creative production. This requirement may be satisfied in one of several ways: (1) a project report written in connection with a required departmental seminar, (2) a master's thesis or (3) the production of a creative project in the fine and performing arts or humanities. The option selected must have departmental approval.

A department may accept the master's thesis as equivalent to a required seminar and/or in lieu of all or part of the comprehensive examination.

Thesis: Those interested in writing a thesis must obtain the MSC Thesis Guidelines from the Graduate Studies Office or their major department, and consult the graduate advisor before beginning any part of the process. Students are responsible for following these guidelines in selecting an advisor and a topic, registering, completing and typing the thesis, defending and applying for graduation. Form A – Approval for Writing a Master's Thesis must be signed by all parties concerned and the appropriate section turned in at the initial registration for thesis. THERE WILL BE NO REGISTRATION FOR THESIS OR THESIS EXTENSION WITHOUT WRITTEN PERMISSION.

Comprehensive Examination: The comprehensive examination is open only to matriculated students and is usually administered once in October and once in March. Students should check with their departmental graduate advisor to determine the date and time of the examination.

It is the student's responsibility to file the Notification for Comprehensive Examination form with the Graduate Studies Office and the appropriate department at the beginning of the semester the examination is to take place. The form is available in the Graduate Studies Office.

Students who fail the departmental comprehensive examination are allowed to retake it twice but must reapply each time as described above.

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Admissions and Retention, 003 Chapin Hall.

Application for Final Evaluation for Graduation and Certification: Students are required to complete the curriculum prescribed in the College catalog in effect, or as subsequently modified, when they matriculate. Graduate students are required to maintain a cumulative grade point average of 3.00 based upon a possible 4.00 system. Inquiries pertaining to an individual's program of studies should be referred to the appropriate academic or faculty advisor.

Degree candidates are required to file an Application for Final Evaluation with the Office of the Registrar prior to the intended graduation date. All degree requirements must be completed by the respective graduation dates.

Application for Final Evaluation filing deadlines for master's degree candidates are October 1 for graduation the following June, March 1

for graduation the following August, and June 1 for graduation the following January.

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation. Students who wish to confirm receipt of their Application for Final Evaluation by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Master's degree candidates who have been evaluated for New Jersey teaching certification endorsement are required to also file an Application for Certification and pay the required fees by check or money order to Montclair State College in the Office of the Registrar during the period of March 15 – April 15 for June graduation, July 1 – August 1 for August graduation, October 15 – November 15 for January graduation.

Approved Educational Certification Programs: Students who have been admitted to an approved certification program at the College and are seeking New Jersey Instructional, Educational Services or Administrative certificates are required to file an Application for Final Evaluation and an Application for Certification with the Office of the Registrar.

Application for Final Evaluation filing deadlines for students who have been admitted to an approved certification program are October 1 for certification the following June, March 1 for certification the following August, and June 1 for certification the following January.

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of certification. Students who wish to confirm receipt of their Application for Final Evaluation by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Students who have been admitted to an approved certification program and have been evaluated are required to file an Application for Certification and pay the required fees by check or money order to Montclair State College in the Office of the Registrar during March 15 – April 15 for June certification, July 1 – August 1 for August certification, October 15 – November 15 for January certification.

Students seeking certification through professional associations (e.g. American Dietetic Association, National Association of Music Therapy, Inc.) should apply to the appropriate association.

Commencement and Diploma: Commencement exercises are held in the Spring semester of each year. However, students who meet the scholastic requirements for their degrees who have fulfilled all other obligations to the College may be awarded diplomas in August or in January. Nevertheless, participation in the commencement exercises is required unless a written request for conferment in absentia is approved by the Office of Graduate Studies. The Office of the Registrar will notify students when diplomas will be available.

TUITION AND FEES*

Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree, per semester hour of credit

(in state)	\$68.00
(out of state)	\$88.00

Fees (Non-refundable)

Student Building fee, paid each time a student registers, per semester hour

\$6.25

General Service fee, paid each time a student registers, per semester hour

\$1.50

Late Registration fee, for all students who register after the regular registration period

\$15.00

Parking (decals purchased for the fall or spring semester are valid for the subsequent summer)

Automobiles and trucks (first vehicle registered)

\$10.00

(alternate vehicle registered)

\$5.00

Motorcycles (first motorcycle registered)

\$5.00

(alternate motorcycle registered)

\$2.50

Automobile and motorcycle (total)

\$12.50

Application for Admission (Non-refundable Fee)

Each application for admission must be accompanied by an application fee of

\$10.00

Application for Certification (Non-refundable Fee)

Per each New Jersey Instructional, Educational Services or Administrative Certification Endorsement

\$30.00

Transcript Fee (Non-refundable)

Per copy (both undergraduate and graduate records for same student are considered one copy)

\$2.00

Five or more copies requested at the same time for the same student (maximum)

\$10.00

Payment

Checks and money orders are payable to Montclair State College.

**Tuition and fees are subject to change without prior notice.*

Refund and Withdrawal

In accordance with the New Jersey State Board of Higher Education policy dated July 16, 1976, the following uniform schedule of refunds for tuition and service charges is effective in all New Jersey State Colleges:

	Percent Refunded
Course discontinued by college authorities	100
Official student withdrawal during first week of course	100
Official student withdrawal after first week but during first third of course	50
Official student withdrawal after first third of course	NONE
Refunds for courses that are scheduled other than the full semester are prorated in accordance with the above stipulations.	
Official withdrawal is effective on the date which the Office of the Registrar receives written notification from the student. No withdrawals are accepted after the midpoint of a course.	

FINANCIAL AID

Several kinds of financial aid are available to graduate students who meet all entrance requirements. Some of these aids provide an opportunity for desirable professional experience as well. Conditions for assistantships, loans and other aids are subject to change.

Graduate Assistantships: Graduate Assistants are expected to contribute an average of 15 hours per week during a 10-month academic year covering September 1 to June 30. They may be given teaching assignments or other duties which are directly associated with their department's educational responsibilities.

A stipend of \$3,000 plus waiver of all College-wide fees and tuition for all graduate level courses required to complete individual degree programs are included as part of the assistantship. During the academic year following the assistantship, tuition waiver and College-wide fee waiver are also included for the number of semesters equal to the number of semesters served as a Graduate Assistant. Graduate Assistants are defined as full-time students if registered for at least 6 semester hours. The Registrar is authorized to certify this full-time status. Therefore, Graduate Assistants may not accept full-time employment during the period of their assistantship and may not register for more than 12 semester hours per semester without written approval of the appropriate academic dean. For application, contact the Graduate Studies Office.

Graduate Assistants must be either matriculated or eligible for matriculation into a graduate degree program at Montclair State College prior to their appointment.

Resident Assistantships: Opportunities are available for graduate students to work as resident interns or assistant managers in the College residence halls. Interns serve as directors of small residence halls for undergraduate students from June 15 to June 15 of the following year.

There is a monetary stipend plus room and board for the year. Tuition and College-wide fees are also waived for the year of internship and the following year. Applications are available in March. Contact the Office of Residence Life, Room 401, Bohn Hall for information. Assistant managers serve in large dormitories under a Resident Director and supervise 6-8 undergraduate residence assistants. The stipend is approximately \$1,600 year, plus room and board with extra pay for summer. Application deadline for assistant managers is January 31 of the year of the appointment. For information and application, apply to the Director of Residence Life.

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The following programs are administered by the Office of Financial Aid. All inquiries should be directed to it at (201) 893-4461:

Equal Opportunity Fund Grant and Assistantships (EOF): Residents of New Jersey who receive undergraduate EOF grants, or who were qualified for EOF but did not attend undergraduate colleges with EOF programs, may apply for EOF grants and assistantships. Those interested should contact the director of the EOF graduate program (201) 893-4384.

Garden State Fellowships: Awards based upon high academic achievement (College record, etc.) Awards made by State of New Jersey to residents who are full-time students at New Jersey colleges. Fellowships of \$4000 each are made to 25 students each year. Applications are available from the Graduate Studies Office.

New Jersey State Guaranteed Student Loan: Loans may be made by participating banking or savings and loan institutions and are guaranteed by the New Jersey Education Assistance Authority. A list of participants may be obtained from the Authority. The maximum amount of such loans is limited to \$5,000 annually for graduate students. There is no interest charged while attending MSC, but it is charged beginning six months after termination of attendance.

National Direct Student Loan: American citizens, legally resident aliens and those who have filed initial citizenship papers and are half-time students at MSC are eligible to apply. The amount of the loan is determined by the availability of funds and the need of the students. Interest of 5 percent and repayment begin six months after the student ends study.

PLUS Program: Full and half-time students may obtain loans under this program. Amounts up to \$3000 for full-time study and \$1500 for half-time study are available. Information and applications are available at participating lending institutions.

Work-Study: Graduate students as well as undergraduates may apply for part-time jobs in the College at an hourly rate under the federal work-study program. Students must demonstrate financial need.

The **GAPSFAS** (Graduate and Professional School Financial Aid Service) form is used to determine eligibility for the National Direct Student Loan and College Work-Study Programs. These Forms are available from the Financial Aid Office.

Satisfactory Academic Progress: All graduate students who receive financial aid must maintain "satisfactory academic" progress as defined by the College. A complete summary of these requirements is available from the Financial Aid Office.

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International Student (Non-Resident Tuition Waiver): A remission of non-residential tuition may be made to students from other countries who demonstrate financial need. Those interested should apply at least 60 days prior to the beginning of the semester a waiver is desired. Applications must be made each semester to the International Student advisor in the Dean of Students Office.

Part-Time Employment: Career Services, located in Room 104 of the Student Center Annex, (201) 893-5194, lists over 2,000 part-time, vacation and temporary positions each year. Students may check current listings daily between 8:30 a.m. and 4:30 p.m., confer with the job developer, attend seminars on the creative job search, and register with the office's computerized job matching system to receive notices in the mail.

Scholarship: The Charles Bargerstock Memorial Scholarship, established in memory of the founder of the Career Services Office, offers a stipend of \$500 to a graduate student in Counseling, Human Services and Guidance who desires to become a competent career counselor, and will work ten hours weekly in the office during the academic year. For information, contact the Career Services Office, (201) 893-5194.

For a complete list of scholarships available to graduate and undergraduate students, consult the current undergraduate catalog, available in the Office of Admissions.

Veterans Benefits: Those who believe they qualify for veterans benefits should see the Veterans' Assistant located in Annex E, Room 10.

STUDENT SERVICES

Alumni Association: Graduates of MSC are members of the Alumni Association. Each year the Association's Executive Board and the Alumni Director plan a schedule of activities. The Association also sponsors student scholarships and faculty research grants, and conducts fund-raising activities to support selected college projects. The Alumni House is at 34 Normal Avenue across from the College, (201) 893-4141.

Bank: A branch of the Pilgrim State Bank is located on the ground floor of the Student Center.

Bookstore: Located on the ground floor of the Student Center, the Bookstore sells textbooks, paperbacks, greeting cards, clothing, office supplies and other items. Hours change each semester.

Career Services provides career planning and job hunting information to students. The office, located in Room 104 of the Student Center Annex, works with individuals who are confused about their career goals as well as those who have particular goals in mind.

Students are assisted with career counseling, instructional seminars, a career library, and listings of full-time and part-time job openings. The jobs listed are in every area except public school teaching and administration. Unique services which are offered include a computerized job matching system, videotaped "mock interview" seminars, a computerized interactive guidance system, and an alumni career information network.

The staff is available to answer questions and to help students find specific information. Students can use the library or job listing books when the office is open daily from 8:30 a.m. to 4:30 p.m. Regularly scheduled seminars do not require pre-registration. To see a counselor, it is necessary to make an appointment by coming into the office or calling (201) 893-5194.

Counseling: The Office of Psychological Services, with a staff of trained psychologists, is available for students seeking professional assistance. Students will be given an initial interview and referred to community agencies as appropriate. The office is located in Gilbreth House, (201) 893-5215.

The Drop-in Center provides peer counseling 24 hours a day, as well as round-the-clock referrals to on- and off-campus facilities. A policy of strict confidentiality is observed. The Center is staffed by an average of 20 students who serve on a volunteer basis. This staff is trained in Rogerian creative-listening technique and is familiar with the many resource materials which the Center has accumulated during its seven years on campus. The Drop-in Center is located between the Student Center and Richardson Hall, (201) 893-5271.

Cultural Opportunities: A number of significant series of cultural events

adds to the pleasantness and interest of life on the campus. The Department of Speech and Theatre presents several plays each semester, and, in the spring, a major student dance concert. The Department of Fine Arts and the Office of Cultural Programming together operate a gallery whose exhibits are generally changed monthly. Distinguished artists visit the campus to talk about their work at the Art Department's Art Forum which takes place on most Thursday afternoons during the semester. The Music Department offers an extensive series of faculty and student concerts. The Office of Cultural Programming brings to the campus performers like Emelyn Williams and Alvin Alley.

During the summer, Summerfun Theater, the college's professional season stock company, offers six plays, each running one week.

Further Graduate Study: Students interested in attending a university for study toward a doctoral degree may find catalogs in Career Services (Student Center Annex) and the Graduate Studies Office (College Hall). The Graduate Studies Office also has national guidebooks on graduate programs, information on scholarships and GRE/GMAT/LSAT/MAT applications. Departmental advisors should also be contacted for information related to their specific discipline.

Health Services: A registered nurse is on duty 24 hours a day from 8 a.m. Monday until 8:30 a.m. Saturday, in the College Health Center located in Blanton Hall. The door is locked after 10:00 p.m., and students must call (201) 893-4361 before coming between 10:00 p.m. and 7:00 a.m. The doctor is available during office hours every morning, Monday through Friday.

I.D.: Students, faculty and staff are required to have a College-issued photographic Identification Card. This card must be shown to withdraw books from the library, to obtain access to the Student Center Rathskeller, and to participate in various activities sponsored by the Student Government Association and Montclair State College.

All students currently holding I.D. cards will receive validation stickers with their class schedules and their tuition payment receipts each semester. New students will have their pictures taken at registration and receive temporary I.D. cards upon showing their course schedules or tuition receipt vouchers. They must go to the Student Center, Room 423, for their permanent I.D. cards. Arrangements can be made to have the cards left at the College Hall switchboard to be picked up between 5:00 p.m. and 8:00 p.m. weeknights or Saturday morning.

Insurance: At low cost, medical insurance is available to all students, whether full or part-time. Many courses that offer off-campus activity, such as practicum or internship (but not student teaching) require this (or other personal) coverage. Check with the department before registering to ascertain if coverage is needed. If needed or desired, arrangements can be made through the College Health Center, (201) 893-4361.

Parking: The College maintains several parking lots for use by students. These are designated on all campus maps. The College assumes no re-

sponsibility for cars or their contents while parked on College property. Parking decals are required of everyone and are available in the Business Services Office in College Hall. Decals must be displayed on all cars parked on campus. Shuttle buses are available to take people to and from parking lots and classroom buildings.

Students who fail to obey parking rules may receive either a municipal or College summons and possible towing.

Residence Facilities: The Office of Residence Life maintains an off-campus listing of private homeowners and landlords who wish to rent rooms, apartments or houses to students. Information on available units is posted on the bulletin board located in Bohn Hall, adjacent to the classrooms. The Office of Residence Life (Room 401 Bohn Hall) is open on weekdays from 8:30 a.m. to 4:30 p.m., and may be reached at (201) 893-5188.

Security and Safety: Assistance is provided by the Campus Police and Security Department in several ways: protection, information and advice. Emergency telephones are available on light posts and buildings around campus. In case of fire or life-threatening emergency, dial 4111 on the campus line. For other assistance, dial 5222.

Some of the services offered to students by the Campus Police and Security Department are: information on rape and crime prevention, services to motorists (keys locked in car, stalled or disabled vehicle, flat tires), and temporary parking permits (emergencies, temporary use of replacement vehicle, guests on campus, temporary overnight or disabled parking).

Student Center and Dining Facilities: The Student Center contains the bookstore, candy shop, bank, information desk, game room and dining facilities.

There are four dining options in the Center: the cafeteria; the wait-res service dining room; the Rathskellar which serves beer and wine as well as food; and the vending machines which provide sandwiches and cold snacks. A valid MSC student identification card is required for admission to the Rathskeller. The Student Center is open when classes are in session throughout the academic year. During examination time and over holidays, modified hours will be posted.

Transcripts: Those desiring transcripts should complete written requests on a form available from the Registrar's Office. A fee of \$2 per copy is payable in advance. If five or more copies are desired at the same time, the fee will be \$10.

Women's Center: The Women's Center is located in the Student Center, Room 420, telephone (201) 893-5106. It provides individual and group counseling, workshops in various areas of concern to women and men, and a Wednesday noon discussion series. A group of students trained as peer counselors offer rap groups, red-tape unraveling sessions and counseling during the day and in the evening. Referrals are made where appropriate.

The Center contains a library and reference files open to all who can benefit from their use.

BIOLOGY

Department Chairperson: Dr. J. Michael McCormick

Graduate Advisor: Dr. Larry Cribben

The graduate programs in the Biology Department are designed to enable a student to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

Research facilities of the Biology Department are maintained in Malory and Finley Halls and include specialized equipment for electron microscopy, botany, microbiology, immunology, aquatic biology, tissue culture, animal behavior and cell physiology. Additionally, the facilities at the New Jersey Maine Sciences Consortium, and other departments in the School of Mathematical and Natural Sciences, are available for cooperative graduate research. Faculty research interests include aquatic and terrestrial ecology, environmental toxicology, developmental biology, parasitology, entomology, immunology and cell physiology.

The Biology Department offers thesis and non-thesis students opportunity for graduate research under faculty supervision in selected areas of biology. Original research should not exceed 8 semester hours for thesis students and 4 semester hours for non-thesis students. A maximum of 2 semester hours will be given to the non-thesis student for research in biological literature. Students must complete a minimum of 26 semester hours in biology and a maximum of 6 semester hours in approved electives, completing a total of 32 semester hours in coursework.

ADMISSION REQUIREMENTS

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject matter of at least twenty-four semester hours in biology and have adequate preparation in college chemistry, mathematics and physics.

In cases where there has been a weak undergraduate program in the major and/or collateral fields, prerequisite courses, which will not count towards graduate credit, may be assigned.

The matriculation program for M.A. candidates is prepared in consultation with the biology graduate advisor. Changes in the program can be made only with the written approval of the graduate advisor. It is the responsibility of the student to keep the advisor informed of progress in the program.

	Semester Hours
I. Course Requirement	
0401 514 Graduate Seminar in Biology	1

- II. Research Requirement
 0401 597 Research in Biological Literature 2
 or
 0401 600 Thesis Research in Biology 3-7
 III. Electives Maximum 6
 (Prior approval of Graduate Advisor is necessary.)
 IV. Semester Hours Required in Biology 26
 V. Comprehensive Examination
 Non-thesis students will take a written examination upon completion of course work in the biology core areas of molecular biology, ecology, and physiology. Thesis students will give a research seminar related to their project and will defend their thesis.

Minimum: 32 semester hours



BIOLOGY

Course Descriptions

Semester Hours

- W 0401 512 TOPICS IN MODERN GENETICS** **3**
 Seminar course. Selected topics from current developments in genetic research, including chromosome and gene fine structure, extra chromosomal genetic elements, genetic engineering and aspects of biomedical genetic research.
 Prerequisites: Undergraduate course in genetics and undergraduate course in biochemistry.
- W 0401 514 GRADUATE SEMINAR IN BIOLOGY** **1**
 Through a series of seminars delivered by faculty and guests, students will survey a broad range of topics in modern biology, and be introduced to the variety of specializations represented within the department. Emphasis shall be placed on recent advances in diverse areas of biology.
 Prerequisites: Matriculation for M.A. degree in biology or permission of instructor. Comprehensive examination for the master's degree in biology will be based on this course.
- W 0401 515 RADIATION BIOLOGY** **3**
 The biologic effects of ionizing radiations.
 Prerequisites: 24 semester hours of biology, one year of physics, Organic Chemistry I and II.

W 0401 516 BIOGEOGRAPHY 3

Distribution of plants and animals of the world on continents and continental and oceanic islands and in various climatic zones.

Prerequisites: One year of botany, one year of zoology, including vertebrate zoology, and a course in physical geography.

W 0401 517 SYMBIOSIS 3

A multidisciplinary study of interactions between dissimilar organisms which live in close association with each other, and the evolutionary implications of such symbioses.

Prerequisites: 24 semester hours in biology.

W 0401 520 PLANT PHYSIOLOGY 4

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Water relations of plants, mineral nutrition, physiological significance of soil and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

Prerequisites: Organic chemistry, one year of botany.

W 0401 521 FIELD STUDIES OF FLOWER PLANTS 4

The taxonomy, evolutionary trends and ecological adaptations of the gymnosperms and angiosperms. A variety of habitats will be visited and analyzed.

Prerequisites: One year of botany and field experience in ecology.

W 0401 523 MYCOLOGY 3

Identification and classification of fungi.

Prerequisite: Microbiology, one year of botany or instructor's permission.

W 0401 530 ANIMAL BEHAVIOR 4

Patterns and mechanisms of behavioral adaptations to stimuli from the internal and external environments. Topics include concepts in psychobiology and sociobiology.

Prerequisite: One year of zoology.

W 0401 541 COMPARATIVE ANATOMY OF VERTEBRATES 4

A critical analysis of the ontogeny and morphology of the protochordates and chordates, and their phylogenetic relationships drawn from the fossil record, evolutionary trends, and comparisons of homologies and analogies. Materials include: extensive dissections, outside readings, and field trip to the American Museum Of Natural History.

Prerequisites: Courses in vertebrate zoology and comparative vertebrate embryology.

W 0401 543 ADVANCES IN IMMUNOLOGY 3

To study in detail selected topics in immunology.

Prerequisites: 24 semester hours in biology, immunology, and 8 hours of chemistry, or instructor's permission.

W 0401 544 COMPARATIVE ANIMAL PHYSIOLOGY 4

The physiological mechanisms involved in the varied responses of both vertebrates and invertebrates to critical fluctuations of their physico-chemical environment.

Prerequisites: Cell Biology, General Physiology, 1 year of zoology and 24 semester hours in biology.

W 0401 545 EXPERIMENTAL ENDOCRINOLOGY 4

A seminar and laboratory course in endocrinology in which the various endocrine glands will be surgically removed or chemically destroyed and the morphologic and physiologic effects measured and observed.

Prerequisites: 24 semester hours in biology, including endocrinology or human physiology, and W 0401 513.

W 0401 547 MOLECULAR BIOLOGY I 3

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer of genetic information.

Prerequisites: Cell Biology, and one year of organic chemistry.

W 0401 548 MOLECULAR BIOLOGY II 4

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer of genetic information. The laboratory will deal with up to date investigative procedures via selected experiments.

Prerequisite: W 0401 547.

W 0401 549 TOPICS IN DEVELOPMENTAL BIOLOGY 3

Seminar in the regulation of developmental events, including both classical morphogenesis and recent advances using techniques of cell and molecular biology.

Prerequisites: Genetics and embryology.

W 0401 550 TOPICS IN MICROBIOLOGY 3

Coverage of selected topics such as the evolution, ecology, metabolism, and genetics of both bacteria and viruses. Emphasis will be placed on practical applications of basic research in specific areas.

Prerequisites: General Microbiology, Organic Chemistry, Cell Biology; also desirable-Molecular Biology and Bacterial Physiology.

W 0401 551 INTERMEDIARY METABOLISM I 2

Discussion of interrelationships of catabolic and anabolic paths. Primary emphasis is placed on the metabolism of nucleic acids, carbohydrates, and proteins.

Prerequisite: Biochemistry or Cell Physiology.

W 0401 552 INTERMEDIARY METABOLISM II 2

Biological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics. Primary emphasis is placed on the metabolism of lipids.

Prerequisite: W 0401 551 or instructor's permission.

W 0401 570 ECOLOGY**3**

Basic ecological principles and concepts. Habitat approach to field exercises in fresh water and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem, problems in plant and animal biology.

Prerequisites: General Botany, General Zoology, and Plant Taxonomy or equivalent required for environmental studies degree.

W 0401 571 PHYSIOLOGICAL PLANT ECOLOGY**4**

The effects of soil, light, and water on plant growth, as well as toxic effects of metals and salinity are measured, using growth chamber and greenhouse facilities.

Prerequisite: Principles of Ecology or NJ Flora.

W 0401 572 ECOLOGY OF THE ESTUARY**4**

Important biotic, chemical and physical parameters of New Jersey's estuaries. Evolution and successional trends of estuarine communities. Ecology of individual communities studied by field trips to Delaware Bay shore and to some Atlantic Coast bays, marshes and offshore barrier islands. Also offered at the New Jersey Marine Sciences Consortium.

Prerequisites: One year of chemistry, General Botany, and Invertebrate Zoology.

W 0401 573 BENTHIC ECOLOGY**4**

Community structure, trophic dynamics, species diversity and distribution of bottom dwelling organisms in relationship to their environment; lectures, laboratory work and field investigations of the marine benthos. Also offered at NJ Marine Sciences Consortium.

Prerequisites: One year of chemistry, General Botany, and Invertebrate Zoology.

W 0401 595 GRADUATE RESEARCH IN BIOLOGY**1-4**

Under the guidance of a faculty sponsor, students will investigate individual research problems of appropriate scope. Research which is not original may be approved but must be of a calibre to warrant graduate research standards.

Prerequisites: Matriculation in biology M.A. program, and completion of 15 semester hours in graduate biology.

W 0401 597 RESEARCH IN BIOLOGICAL LITERATURE**2**

To allow the student to investigate and evaluate a specific topic in biology under the supervision of a faculty member and to develop the student's skills in presenting current research in both the written and oral modes.

Prerequisites: W 0401 514 and graduate matriculation.

W 0401 600 THESIS RESEARCH IN BIOLOGY**3-7**

This course is designed to encourage supervised graduate research in a well-defined area of biology.

Prerequisites: Matriculation in biology M.A. program, approval of department chairperson and graduate advisor, as well as faculty sponsor who will supervise research.

W 1999 535 MARINE INVERTEBRATES: THE WORM PHYLA 1

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine worms with emphasis on the polychaetes. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Graduate standing in biology, preferably with background in ecology and invertebrate zoology or instructor's permission.

W 1999 536 MARINE INVERTEBRATES: MOLLUSCA 1

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine molluscs. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Biology, preferably with background in ecology or invertebrate zoology or instructor's permission.

W 1999 537 MARINE INVERTEBRATES: ARTHROPODA 1

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine arthropods. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology, preferably with background in ecology and invertebrate zoology or instructor's permission.

W 1999 538 MARINE INVERTEBRATES: BRYOZOA, ECHINODERMATA AND PROTOCHORDATA 1

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine bryozoans, echinoderms and protochordates. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisites: Biology, preferably with background in ecology and invertebrate zoology or instructor's permission.



BUSINESS ADMINISTRATION

Master of Business Administration (MBA) Director:
Dr. Harold Flint

THE MONTCLAIR MBA

The goal of the Montclair Master of Business Administration Program is to prepare management generalists who have the knowledge, techniques and attitudes to analyze complex issues, establish logical goals, evaluate alternatives, form reasoned judgments, and effectively implement chosen options. While the development of analytical capacities is critical, the program's structure emphasizes the development of capacities that are tempered by a concerned awareness of obligations to the greater social environment.

The curriculum stresses the theoretical foundations of management oriented disciplines, practical applications of research findings, and current managerial practices. This blend of theory and prevalent practice builds a strong foundation for immediate application as well as post-graduate professional growth.

The Montclair MBA provides the opportunity to design unique programs to meet your specific needs and interests. You may choose to specialize in a particular area or you may select an array of advanced courses which will provide a broad, general education. Over 95 percent of our MBA classes are taught by faculty with doctoral or other appropriate terminal degrees. The remaining classes are taught by persons with outstanding professional credentials. The faculty's publication interests include refereed journal articles, textbooks, professional publications, governmental hearings, consulting reports, etc.

The School of Business Administration invites applications from persons with baccalaureate or post-baccalaureate degrees. Because we actively seek a diverse student body, all previous academic majors are considered for admission. Both full and part-time students are welcome. The courses are offered primarily in the evening.

PROFESSIONAL AFFILIATIONS

The Montclair MBA program is privileged to have a continuing relationship with two outstanding groups of businesspersons: the Business Advisory Council and the Young Presidents' Organization.

BUSINESS ADVISORY COUNCIL

Composed of preeminent business, professional and civic leaders, the Business Advisory Council serves as an organized liaison between the School

of Business Administration and the greater community. The Council supplies information and advice concerning the development of the School's programs. It also provides a forum for the exchange of ideas between our MBA students and the leaders of some of the nation's most distinguished organizations.

YOUNG PRESIDENTS' ORGANIZATION (YPO)

The YPO is an international organization composed of persons who have become presidents or chief executive officers of significant organizations prior to the age of forty. Montclair is proud to be a host for one of their educational outreach efforts: the Entrepreneurial Lecture Series. Provided for our MBA students, this series features lecture-discussions given by outstanding young business leaders from the New Jersey YPO Chapter.

CURRICULUM

The curriculum consists of 63 semester hours, of which 30 hours are devoted to a common body of knowledge, 27 hours are elected from advanced courses and 6 hours are allocated to integrating courses. In planning the program, the student should keep the following in mind:

- Within the 27 semester hours of advanced courses, to meet one's particular needs and interests, the student may develop an area of specialization, or, the individual may choose to develop a general program without a specialization. While there are no rigid course requirements to develop an area of specialization (i.e., each program of advanced courses is uniquely designed), each program must meet breadth requirements and be approved by the MBA Director. Specializations consist of 9 to 12 semester hours. Of the remaining 18 to 15 hours, no more than 6 hours may be taken in a single discipline. In planning advanced study, the student should review the Tri-Annual Course Offering Projection to be certain he or she can enroll in the courses wanted within the time allotted for education.
- At least 3 semester hours must be selected from advanced courses which have a primary emphasis on international aspects of business.
- An approved undergraduate calculus course is a program prerequisite. If an individual's undergraduate record does not include such a course he/she will be required to complete Y 1701 0114 Mathematics for Business II: Calculus, (3 sh), or a similar course, prior to enrolling in Statistical Methods. This prerequisite calculus course will not be included toward fulfilling the student's total MBA graduate credit hours requirement.
- Students must complete the core courses prior to enrolling in the advanced courses. Exceptions are allowed only if appropriate core courses are not offered.
- All courses taken outside the School of Business Administration must be approved by the MBA Director prior to enrollment.
- All programs must be approved by the MBA Director. To qualify for graduation, the student must adhere to your approved program.

ADVANCED ACADEMIC STANDING AND TRANSFER STUDENTS

Through prior academic experience, challenge examinations and/or graduate level transfer credits, the 63 semester hour MBA requirement may be reduced by a maximum of 33 semester hours. The remaining 30 semester hours must be *completed at Montclair* and must meet the following minimum requirements:

- At least 21 semester hours must be earned in advanced courses.
- Students must complete the Integrating Core.
- If a specialization is elected, students must earn all specialization credits at Montclair.

ADMISSION INFORMATION

Candidates are required to submit an application for graduate admission which includes:

- Two official copies of the academic transcript from each college and/or university attended.
- Scores from the Graduate Management Admission Test.
- A statement of professional objectives.
- Two letters of recommendation from persons qualified to evaluate the applicant's promise of academic achievement and professional growth potential.
- Although prior work experience is not an admission requirement, it is strongly recommended for all MBA applicants.
- A non-refundable fee of \$10.00 must accompany each application.

Application materials may be obtained from and/or returned to:

The Admissions Office
Montclair State College
Upper Montclair, NJ 07043

APPLICATIONS MAY BE SUBMITTED AT ANY TIME OF THE YEAR.

GRADUATE MANAGEMENT ADMISSION TEST (GMAT)

The GMAT is required of all students. No application will be considered without these scores. Under the auspices of the Educational Testing Service, the test is offered by various colleges and universities including Montclair. For exact dates and locations contact: The Educational Testing Service, Box 966, Princeton, New Jersey 08541.

REQUIREMENTS FOR THE MASTER OF BUSINESS ADMINISTRATION DEGREE

	Courses	Semester Hours	Prerequisites
I.	Foundation Core	15	
	2204 501 Economic Analysis	3	

	2204 505	Aggregate Economics	3	2204 501
	0502 501	Financial Accounting	3	
	0503 501	Statistical Methods	3	
	0506 503	Information Systems	3	
II.	Functional Core	.....	15	
	0502 502	Managerial Accounting	3	2204 501 & 0502 501
	0503 502	Operations Research	3	0503 501
	0504 501	Corporate Financial Management	3	0502 501
	0506 505	Management Process and Organizational Behavior	3	
	0509 501	Fundamentals of Marketing	3	
III.	Advanced Courses	.....	27	
All students must select 27 semester hours from among the advanced (non-core) courses. Students may design program specializations to meet specific needs and interests; or, they may choose not to specialize and select an array of courses which will provide a broad, general education. In either case, a student's program must meet breadth requirements and must be approved by the MBA Director prior to enrolling in advanced courses.				
At least one of the advanced courses (3 semester hours) must be selected from among the following:				
	0504 552	International Financial Policy		
	0506 511	Issues in International Management		
	0509 592	International Marketing Management		
	2204 503	Economic Problems of the Third World		
	2204 533	Corporations and International Financial Markets		
	2204 543	United States and the World Economy		
IV.	Integrating Core	.....	6	
	0599 580	Business and the Sociopolitical Environment	3	
	0599 590	Strategy and Business Policy	3	0599 580
Students must complete the Foundation Core, the Functional Core and at least 15 semester hours of advanced courses prior to enrolling in the integrating courses.				
TOTAL SEMESTER HOURS			63	

ADVANCED COURSES AND FIELDS OF SPECIALIZATION

Although there are no rigid course requirements for any given field of specialization (i.e., each program of advanced courses is uniquely designed), the following course groupings provide an approximate guide to the types of subjects considered complementary to the various noted fields. Depending upon when one enters and the sequence of course offerings, some specializations may not be available to some students. In planning advanced study, students should review the Tri-Annual Course Offering Projection to be certain they can achieve their courses within the time they have allotted for their education. In all cases, a student's program must be approved by the MBA Director prior to enrolling in advanced courses.

Accounting

This field of specialization is designed to prepare students for careers in accounting, financial management, security analysis, controllership, and to enhance the accounting knowledge of students whose career objectives include financial analysis and/or general management. A typical program would emphasize courses in financial and quantitative analysis, and selections from the following courses.

- 0502 520 Contemporary Issues in Financial Accounting: I
- 0502 521 Contemporary Issues in Financial Accounting: II
- 0502 522 Accounting for Decision Making Control
- 0502 523 Accounting for Business Concentrations
- 0502 524 Auditing Concepts and Techniques
- 0502 525 Fundamentals of Federal Taxation

To be eligible to sit for the Certified Public Accountant (CPA) examination, students must have a baccalaureate degree with at least 60 semester hours of liberal arts courses and the following semester hours of undergraduate and/or graduate credit:

- 24 semester hours of Accounting,
- 6 semester hours of Business Law,
- 6 semester hours of Economics, and,
- 6 semester hours of Finance

Business Economics

This area prepares students to perform certain economic analyses for business or government (e.g., developing forecasts, cost-benefit analyses, public policy analyses, etc.). Students are provided with an institutional and theoretical understanding of the economic environment within which business and government form decisions. Topics include theories of pricing; the analysis of market demand; the economic role of money, credit, the Federal Reserve System, and Treasury operations; the factors comprising aggregate demand and how they interact to determine employment, output and level of prices; the economic impact of international activity, etc. Also of importance is the development of an understanding of how governmental policies affect business performance. A typical program would emphasize courses in finance and quantitative analysis, and selections from the following courses:

- 2204 420 Econometrics
- 2204 502 Financial Institutions and Monetary Policy
- 2204 503 Economic Problems of the Third World
- 2204 508 Economics of Public Management
- 2204 510 Urban Economics: Problems and Policy
- 2204 533 Corporations and International Financial Markets
- 2204 541 Foundations of Contemporary Economic Thought
- 2204 542 Economic Fluctuations and Forecasting
- 2204 543 United States and the World Economy
- 2204 544 Government and Business
- 2204 545 Economics of Labor

Finance

This field prepares students for careers in the financial management of businesses and financial intermediaries (e.g., commercial banks, savings

and loan institutions, investment banking, etc.). It also provides an excellent preparation for careers in brokerage and bond houses, financial counseling, and investment counseling. To develop an understanding of the role of finance in the administrative decision-making process, the field provides students with a knowledge of mechanisms, operations, and institutions of the financial system. A typical program would emphasize courses in accounting, business economics and quantitative analysis, and selections from the following courses:

- 0504 551 Investments, Portfolios and Security Analysis
- 0504 552 International Financial Policy
- 0504 553 Financial Markets: Theory and Practice
- 0504 554 Advanced Financial Policy
- 0504 555 Financial Structure Analysis

Management

This field is designed for students preparing for careers in organization, personnel and operations management. The courses provide education in organization theory and behavior, the management of human resources, operations, and information systems. In all areas the emphasis is upon developing a thorough comprehension of potential management problems and the effectiveness and limitations of analytical techniques employed in their solution. Courses include such topics as: process and equipment selection, inventory control, distribution systems, quality control, employee motivation, group behavior, international business management, etc. A typical program would include courses in all other areas (i.e., accounting, business economics, finance, marketing and quantitative analysis) and selections from the following courses:

- 0506 510 Personnel Management
- 0506 511 Issues in International Management
- 0506 512 Organizational Development
- 0506 513 Leadership and Behavior
- 0506 514 Management and the Computer
- 0506 535 Advanced Information Systems

Marketing

The Marketing specialization is designed to meet the needs of students interested in pursuing careers in a variety of marketing functions (e.g., product planning, marketing research, sales management, advertising, marketing planning, etc.). The courses are designed to provide students with a firm knowledge of the institutional and analytical aspects of the subject with a strong emphasis on decision making strategies and the development of solutions to practical marketing problems. A typical program would emphasize courses in business economics, management, and quantitative analysis, and selections from the following courses:

- 0509 591 Consumer/Buyer Behavior
- 0509 592 International Marketing Management
- 0509 593 Product Planning/New Product Management
- 0509 594 Marketing Research and Information Systems
- 0509 595 Marketing Management

Quantitative Analysis

This field provides education in quantitative analytical methods for solving managerial and research problems. The purpose of these courses is to develop a theoretical understanding of, and a practical facility with, statistics, computers, and operations research. Course topics include such subjects as descriptive statistics, probability, queueing, business models, multiple regression, non-parametric statistical analyses, etc. The quantitative specialization will complement any career which employs mathematical and statistical analyses. With the assistance of the MBA Director, students selecting this specialization may develop programs that include courses drawn from offerings in computer science and mathematics. A typical program would emphasize courses in business economics, finance and management, and selections from the following courses:

- 0503 531 Business Models
- 0503 532 Statistical Inference For Business
- 0503 533 Stochastic Models
- 0503 534 Multivariate Analysis
- 0503 535 Advanced Information Systems

BUSINESS ADMINISTRATION

Course Descriptions

ACCOUNTING COURSES

Semester Hours

A 0502 501 FINANCIAL ACCOUNTING

3

A study of basic accounting concepts and their significance to the financial analyst and manager. Problems relating to income determination, valuation, reporting and analysis are stressed. Alternative conceptual foundations of reporting standards are presented and evaluated.

A 0502 502 MANAGERIAL ACCOUNTING

3

The development and use of accounting information for decision-making and control. Alternative cost concepts, cost volume profit analysis, and relevant costing techniques are introduced in the context of providing information for solving pricing, make or buy; product-mix; and resource utilization problems. The use of accounting data for control systems, variance analysis and performance evaluation are presented.

Prerequisites: A 0502 501, C 2204 501.

A 0502 520 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING I 3

The course builds on material presented in the financial accounting course A 0502 501. Students should gain an improved understanding of the techniques and underlying rationale of methods used to accumulate financial and operating data. Improves skill in analyzing information provided in annual financial reports.

Prerequisite: A 0502 501.

A 0502 521 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING II 3

Continuation of contemporary issues in Financial Accounting I. Enables students to acquire an improved understanding of the composition and significance of various segments of the balance sheet, especially non-current assets, non-current liabilities, stockholders' equity, and statement of changes in financial position.

Prerequisites: A 0502 501, 520.

A 0502 522 ACCOUNTING FOR DECISION MAKING 3

The focus of this course is the integration with managerial accounting of the discipline of economics, managerial science and behavioral sciences. Quantitative techniques such as regression, linear programming and calculus are investigated in light of managerial accounting applications. The implications of behavioral sciences on the function of performance evaluation is investigated.

Prerequisite: A 0502 502.

A 0502 523 ACCOUNTING FOR BUSINESS COMBINATIONS 3

Presents the conceptual foundations and current reporting practices of accounting for business combinations. Purchase and pooling methods of accounting for business acquisitions and preparation of consolidated financial statements are extensively covered.

Prerequisite: A 0502 520 or instructor's permission.

A 0502 524 AUDITING CONCEPTS AND TECHNIQUES 3

A course in auditing principles, theory, design, and techniques. Theory, practice, and techniques are integrated through the use of current auditing problems and student performance of a simulation audit of selected financial statement data.

Prerequisite: A 0502 520.

A 0502 525 FUNDAMENTALS OF FEDERAL TAXATION 3

The development and use of principles and concepts of federal tax laws affecting non-business entities. Analysis of internal revenue code and regulations as well as pertinent cases in the areas of gross income. Characterization of gains and losses, taxpayer status, and deductions will be studied.

Prerequisite: A 0502 501.

A 0502 575 INDEPENDENT STUDY IN ACCOUNTING 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

A 0502 577 SELECTED TOPICS IN ACCOUNTING 3

An in-depth study of a selected topic, issue, problem or trend in accounting. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

BUSINESS ECONOMICS COURSES

C 2204 501 ECONOMICS ANALYSIS 3

The resource allocation and distribution of income implications of a market oriented economy operating under various degrees of competition. Also analyzed are the determinants of consumer and market demand, and, the theoretical cost structure of firms.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3

Analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems, both theoretical and applied, in the area of monetary policy.

Prerequisite: C 2204 501.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3

A survey of major economic problems of the third world; examination of the economic structure of developing countries and of general theories of economic development; critical evaluation; of various policy alternatives for their development analysis of possible economic relationships between first and second worlds with the third world.

Prerequisite: C 2204 501.

C 2204 505 AGGREGATE ECONOMICS 3

Develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models the course examines current research and reviews the economy's recent macroeconomic performance.

Prerequisite: C 2204 501.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3

Application of capital theory in the decision-making processes of government. Alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: C 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS & POLICY 3

Studies the location of economic activities, the growth of cities and the origins of some urban problems in a market economy. Also discussed are the problems of location and congestion due to agglomeration and non-market phenomena.

Prerequisite: C 2204 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3

Discusses the economic theories and problems which confront business institutions when dealing in international financial markets. Analyzes the various market instruments and how a corporation may use them.

Prerequisite: C 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3

Antecedents of current economic theory; economics as a cumulative science; the works of the creative economists; the uses and limitations of economic theory.

Prerequisite: C 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS & FORECASTING 3

Theories to account for variations in business activity; macroeconomic models and other forecasting approaches; economic fluctuations in the United States; proposals for reducing fluctuations; Harrod Domar model and other modern theories of growth.

Prerequisite: C 2204 505.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3

Principles of international finance, monetary relations and trade. Discussion of contemporary international monetary and trade problems and policies. Discussion of the economic aspects of current American foreign policy.

Prerequisite: C 2204 505.

C 2204 544 GOVERNMENT AND BUSINESS 3

The evolution of government influences on the functioning of the American economy. The causes and consequences of government regulation and control. The importance of economic analysis in the foundation of public policies.

Prerequisites: C 2204 501.

C 2204 545 ECONOMICS OF LABOR 3

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.

Prerequisite: C 2204 501.

C 2204 575 INDEPENDENT STUDY IN ECONOMICS 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

C 2204 577 SELECTED TOPICS IN ECONOMICS 3

An in-depth study of a selected topic, issue, problem or trend in business economics. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

FINANCE COURSES

D 0504 501 CORPORATE FINANCIAL MANAGEMENT 3

An introductory course in corporate financial management which provides students with an understanding of the fundamental concepts of modern finance from an analytical and quantitative perspective and serves as a foundation course for further work in finance. The course stresses: valuation; capital budgeting decisions; capital structure and dividend decisions.

Prerequisite: A 0502 501.

D 0504 551 INVESTMENTS, PORTFOLIOS AND SECURITY ANALYSIS 3

Develops the analytical methods relevant to investment management. Techniques are presented for the evaluation of corporate equity, debt, and other securities. Portfolio theory is presented in the context of formulating and managing appropriate asset portfolios.

Prerequisites: D 0504 501, D 0503 501.

D 0504 552 INTERNATIONAL FINANCIAL POLICY 3

Analytically oriented introduction to the political, economic, operational and tax environment in which international business, particularly multinational corporations, functions. Stressing methods of analysis which enable defensive strategies against risk; the course is comprised of five major units: political and country risk; foreign exchange risk; long-run investments and financing; working capital management; and control performance evaluation and tax planning.

Prerequisite: D 0504 501.

D 0504 553 FINANCIAL MARKETS: THEORY AND PRACTICE 3

Examines the functions of financial markets especially as they affect the management of financial institutions. Emphasis is placed on the analysis of financial markets from the viewpoint of the corporate financial manager.

Prerequisite: D 0504 501.

D 0504 554 ADVANCED FINANCIAL POLICY 3

Focuses on the application of valuation, investment, financing and dividend decisions to case studies it examines various practical problems in capital budgeting, the valuation of different kinds of debt and options, and financial planning and strategy.

Prerequisite: D 0504 501.

D 0504 555 FINANCIAL STRUCTURE ANALYSIS 3

This is an advanced course in finance which deals with the long-term financing decisions and strategies of the corporations. The theory of capital structure and costs of capital is presented. Emphasis is on integration of the investment and financing decisions of the firm.

Prerequisite: D 0504 553.

D 0504 575 INDEPENDENT STUDY IN FINANCE 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

D 0504 577 SELECTED TOPICS IN FINANCE 3

An in-depth study of a selected topic, issue, problem or trend in finance. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

MANAGEMENT COURSES

E 0506 503 INFORMATION SYSTEMS 3

Examines the information requirements of an organization. The differences in the kinds of information needed at the various organizational levels (operational, administrative and strategic) are emphasized. How to plan and implement a comprehensive information system is discussed as well as methods to measure its effectiveness.

E 0506 505 MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 3

Review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading, and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.

E 0506 510 PERSONNEL MANAGEMENT 3

Review of current literature from the behavioral sciences that apply to recruiting, selection, training, performance evaluation, labor relations, compensation, health and safety, and management development. Current problem applications are emphasized.

Prerequisite: E 0506 505.

E 0506 511 ISSUES IN INTERNATIONAL MANAGEMENT 3

An in-depth analysis of all components of international business management. Major emphasis is placed upon multi-national business operations including foreign profit centers, national and cultural differences, and comparative management systems with consequent impact on profitability. These are studied in terms of their influence on all areas of international trade.

Prerequisites: C 2204 505; D 0504 501; E 0506 505; F 0509 501.

E 0506 512 ORGANIZATIONAL DEVELOPMENT 3

The purpose of the course is to enhance the student's understanding and skill in the process of change in organizations. Students will be introduced to intervention techniques which will allow them to recognize the need for organizational change as well as develop skill in implementing a program change.

Prerequisite: E 0506 505.

E 0506 513 LEADERSHIP AND BEHAVIOR 3

The purpose of the course is to help students understand leadership behavior. The course reviews current theoretical and empirical literature from the behavioral sciences as it relates to leadership. Topics covered include leadership styles, power and leadership, leader-follower interactions, and the manager as leader.

Prerequisite: E 0506 505.

E 0506 514 MANAGEMENT AND THE COMPUTER 3

Study of computers and their use as management tools in information systems, research, control procedures, production, finance, modeling, and decision making. Topics include description of end application of different hardware and software components and programming concepts. Computer cost benefit analysis in all of the above and in systems applications.

Prerequisite: E 0506 505, 503.

E 0506 535 ADVANCED INFORMATION SYSTEMS 3

Conceptual foundations of information systems including the nature of information, the impact of information systems of the organization and managing the information services function. Explores most current technology in the area of operating systems software, including multiprocessing, multiprogramming, virtual storage and other operating systems, as well as applications software systems. Cross-listed as D 0503 535.

Prerequisite: E 0506 503.

E 0506 575 INDEPENDENT STUDY IN MANAGEMENT 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

E 0506 577 SELECTED TOPICS IN MANAGEMENT 3

An in-depth study of a selected topic, issue, problem or trend in management. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3

Literature and developments in the field of public administration from Woodrow Wilson to the New Public Administration Movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy-making process.

Prerequisite: E 0506 505 and permission of MBA director.

MARKETING COURSES

- F 0509 501 FUNDAMENTALS OF MARKETING 3**
The aim of Fundamentals Of Marketing is to develop an understanding of the principles of marketing as they operate in the economy as a whole and as practiced by all types of businesses. Attention will be directed to the problems marketing managers face in creating, promoting, and delivering want-satisfying products to the consumer.
- F 0509 575 INDEPENDENT STUDY IN MARKETING 1-3**
Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.
- F 0509 577 SELECTED TOPICS IN MARKETING 3**
An in-depth study of a selected topic, issue, problem or trend in marketing. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.
- F 0509 591 CONSUMER/BUYER BEHAVIOR 3**
Consumer/Buyer behavior aims at developing an understanding of the social and psychological factors that influence industrial and consumer buying behavior. The managerial implications of these factors are emphasized.
Prerequisite: F 0509 501.
- F 0509 592 INTERNATIONAL MARKETING MANAGEMENT 3**
An examination of the various multinational and transnational issues confronting business organizations marketing products and services in overseas markets. Attention will be focused on problems such as identifying and evaluating markets, adapting marketing strategies to specific market needs and coordinating strategies in world markets.
Prerequisite: F 0509 501.
- F 0509 593 PRODUCT PLANNING/NEW PRODUCT MANAGEMENT 3**
An examination of the issues surrounding the management of existing product lines and the development of new products. Topics will include organizing and planning for product management, marketing research and concept testing, product life cycle approach, and new product development strategies and techniques.
Prerequisites: F 0509 591.
- F 0509 594 MARKETING RESEARCH AND INFORMATION SYSTEMS 3**
An examination of the development of information for use by marketing decision makers. Topics include using secondary data, collecting and evaluating primary data, managing the marketing research process, and developing a coordinated marketing information system.
Prerequisite: F 0509 0501.

F 0509 595 MARKETING MANAGEMENT**3**

An intensive analysis of the issues and problems facing marketing managers. Emphasis is on the development of decision-making skills from both a tactical as well as strategic viewpoint.

Prerequisite: F 0509 501.

QUANTITATIVE ANALYSIS COURSES**D 0503 501 STATISTICAL METHODS****3**

Introduction to statistical techniques with applications in business decision making and problem solving. Topics include descriptive statistics, probability distributions, statistical estimation and hypothesis testing, regression and correlation, and time-series analysis.

Prerequisite: Course in undergraduate calculus.

D 0503 502 OPERATIONS RESEARCH**3**

A presentation of many of the applied mathematical techniques used to help make business decisions. Topics include the theory of decisions, linear programming, network analysis, queuing, Markov processes, and simulation.

Prerequisite: D 0503 501.

D 0503 531 BUSINESS MODELS**3**

An advanced course in quantitative approaches to managerial decision making. The emphasis will be on stimulation models and techniques with applications in finance, production, inventory, and queuing analysis. Computer-based simulation systems will be discussed and tested on the computer.

Prerequisite: D 0503 501.

D 0503 532 STATISTICAL INFERENCE FOR BUSINESS**3**

An exploration of intermediate statistical methodologies used for decision making. The theoretical bases for various techniques are presented to create a framework for understanding the assumptions and limitations of inferences made from data. Topics covered will include multivariate probability functions, moment generating functions, sampling distributions; estimation, Neyman-Pearson Lemma, parametric and non-parametric hypothesis tests, and analysis of variance.

Prerequisite: D 0503 501.

D 0503 533 STOCHASTIC MODELS**3**

Stochastic models are descriptions of systems which change in accordance with probabilistic laws. The course focuses on construction rather than solution of models. Simulation solutions and statistical analysis of data from stochastic processes. Applications to business problems are stressed.

Prerequisite: D 0503 502.

D 0503 534 MULTIVARIATE ANALYSIS**3**

An introduction to multivariate analysis with an emphasis on the practical application of these techniques. After introducing the multivariate distribution, the following statistical procedures are explored: multiple regression, discriminant analysis, multivariate tests of significance, canonical analysis, factor analysis, and multidimensional scaling. Use of these procedures as managerial tools is explored.

Prerequisites: D 0503 502, 532.

D 0503 535 ADVANCED INFORMATION SYSTEMS**3**

Conceptual foundations of information systems including the nature of information, the impact of information systems of the organization and managing the information services function. Explores most current technology in the area of operating systems software, including multiprocessing, multiprogramming, virtual storage and other operating systems, as well as applications software systems. Cross-listed as E 0506 535.

Prerequisite: E 0506 503.

**D 0503 575 INDEPENDENT STUDY IN
QUANTITATIVE METHODS****1-3**

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

**D 0503 577 SELECTED TOPICS IN
QUANTITATIVE METHODS****3**

An in-depth study of a selected topic, issue, problem or trend in quantitative methods. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

INTEGRATING CORE**0599 580 BUSINESS AND THE SOCIOPOLITICAL
ENVIRONMENT****3**

This course studies the increasingly complex set of interrelationships among business, government and other interest groups in the public policy process. It explores the economic and legal environment, and the social and political factors which affect organizations. A series of current corporate and public policy problems are discussed in order to raise major issues, including ethical issues, involved in managing the corporation's relationships with its many publics.

Prerequisites: Completion of Foundation and Functional Cores and a minimum of 15 semester hours of advanced courses.

0599 590 STRATEGY AND BUSINESS POLICY**3**

The focus of this course is on actual business situations and their impact on the total organization including the role of top management in dealing with these problems. The structure of the course is based on the strategic management process which includes identification, evaluation and implementation of policy and strategy.

Prerequisite: 0599 580.

BUSINESS EDUCATION

Chairperson: Dr. Rosemarie McCauley

Graduate Advisor: Dr. Albert D. Rossetti

The department of Business Education and Office Systems Administration prepares teachers of business education for administrative, supervisory and specialized work, or master teaching in the field of business education. In order to attain these objectives, candidates have an opportunity to supplement their undergraduate study and to explore advanced areas of work in accordance with their individual background, experience, achievement, and professional needs.

This is a 32-hour program which requires that candidates select six credits from a wide variety of general education courses and six credits in free electives. Of the twenty hours in the specialization, twelve hours represent required courses; the remaining eight hours allow candidates to select course alternatives from electives in business education. Research projects are planned and started in the Introduction to Research course and completed in the Seminar in Business Education course. An oral comprehensive examination based on results of the completed research project and a written comprehensive examination are an integral part of the program.

ADMISSION REQUIREMENTS

Graduate work toward the Master of Arts degree in business education presupposes the completion of an undergraduate major in business or distributive education or equivalent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BUSINESS EDUCATION

	Semester Hours
I. Basic Professional Education	6
II. Specialization	20
A. Required Courses	
0838 501 Principles and Problems of Business Education	3
0838 503 Introduction to Research in Business Education	3
0838 603 Seminar in Business Education	3
At least one of the following:	
0838 512 Improvement of Instruction in General Business Subjects	3
0838 513 Improvement of Instruction in Stenography and Secretarial Practice	3

0838 514	Improvement of Instruction in Typewriting and Clerical Practice	3
B.	Electives in Business Education	8
III.	Free Electives	6
IV.	Comprehensive Examination. Oral and written, given in the Fall and Spring in conjunction with 0838 603 Seminar in Business Education. Examinations are general in nature and are intended to test maturity of thought with respect to business education.	

Minimum: 32 semester hours

BUSINESS EDUCATION

Course Descriptions

Semester Hours

B 0838 501 PRINCIPLES AND PROBLEMS OF BUSINESS 3

Survey of principles and practices. History of business education, objectives, relationship of business education to general education, trends and problems in the field.

B 0838 503 INTRODUCTION TO RESEARCH IN BUSINESS EDUCATION 3

Literature and research of business education. Topics covered include: evaluation of current literature in business education research and tools used for interpreting statistical data. Student develops first three chapters of research study to be completed in B 0838 603, Seminar In Business.

Prerequisite: B 0838 501 and 512 or 513 and be matriculated.

B 0838 505 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION 3

Study of problems of organizing, directing and supervising business education programs at the secondary school and collegiate levels.

B 0838 506 BUSINESS EDUCATION CURRICULUM 3

Study of business education for various levels and types of schools. Evaluation of specific programs for development of improved curricula.

B 0838 512 IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS SUBJECTS 3

Study of objectives, content, methods, teaching aids and evaluation procedures for courses such as general business, economic geography, business law and consumer education.

Prerequisites: Undergraduate courses in general business methods and/or teaching experience.

B 0838 513 IMPROVEMENT OF INSTRUCTION IN STENOGRAPHY AND SECRETARIAL PRACTICE 3

Study of objectives, content, methods, teaching aids, and evaluation procedures for subjects in stenography and secretarial practice. Proficiency examinations in stenography will be given.

Prerequisite: Undergraduate methods in stenography and/or teaching experience.

B 0838 514 IMPROVEMENT OF INSTRUCTION IN TYPEWRITING AND CLERICAL PRACTICE 3

Study of objectives, content, methods, teaching aids, and evaluation procedures of subjects in typewriting and clerical practice. Proficiency examinations in typewriting will be given.

Prerequisite: Undergraduate methods in typewriting and/or teaching experience.

B 0838 528 FIELD STUDIES IN BUSINESS/DISTRIBUTIVE EDUCATION 3

Opportunity for the classroom teacher to evaluate some of the practices of business offices, industries and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

B 0838 529 PRINCIPLES OF COOPERATIVE OFFICE EDUCATION 3

Survey of principles and practices of cooperative office education. Objectives, organization, related class, placement, and supervision are investigated.

Prerequisite: Business education teaching certificate.

B 0838 530 BUSINESS/DISTRIBUTIVE EDUCATION IN POST-H.S. INSTITUTIONS 3

This course is designed to acquaint the student with the purposes, curricula, methods, and problems of teaching business education subjects in post-high school institutions, including technical institutes, two-year, and four-year colleges.

B 0838 540 WORKSHOP IN BUSINESS EDUCATION 1-3

This course will give the business educator the opportunity to do an intensive study of a selected current issue, concern, and/or problem in Business Education.

B 0838 603 SEMINAR IN BUSINESS EDUCATION 3

Matriculated graduate student in business or distributive education completes research project in business or distributive education. Prepares student for comprehensive examinations.

Prerequisite: B 0838 503.

B 0844 554 WORKSHOP IN PROBLEMS OF DISTRIBUTIVE EDUCATION 3

Intensive analysis of problem-solving in distributive education programs. Discuss experience in teaching and administering distributive education programs. Committee work-seminar method is used.

- B 0844 555 FIELD STUDIES-DISTRIBUTIVE EDUCATION 3**
 Opportunity for the classroom teacher to visit retail organizations, wholesaling houses, distribution centers and service establishments in the metropolitan area and evaluate their practices. Experience in planning, conducting and follow-up of field trip.
- B 0844 556 THE PROJECT METHOD IN DISTRIBUTIVE EDUCATION 3**
 Development, use and coordination of individual, small-group and class vocational projects providing simulated occupation experience for the high school "non-co-operative" distributive education student.
- B 0844 552 IMPROVEMENT OF INSTRUCTION IN WHOLESALING AND SERVICES 3**
 Objectives, content, methods, teaching aids and evaluation procedures for courses such as wholesaling, limited and service types; service, gas stations, cleaning establishments, rent-alls and other service organizations. Prerequisites: Undergraduate methods course in distributive education and/or teaching experience in distributive education.
- B 0844 553 PRINCIPLES AND PROBLEMS OF ADULT EXTENSION DISTRIBUTIVE EDUCATION 3**
 Organization, promotion, publicity and methods for adult extension classes-using community resources. Includes inservice, preservice and advanced courses for adults in urban and suburban situations.

CHEMISTRY

Chairperson: Dr. John Isidor

Graduate Advisor: Dr. Joseph F. Becker

The Chemistry Department offers advanced level courses in all major areas of chemistry as well as a number of highly specialized courses and individualized research opportunities. Students may selectively take a course or several courses to increase their professional competence in a particular area of chemistry and/or may elect to enroll in the Master of Arts program in chemistry as outlined below.

ADMISSION REQUIREMENTS

The minimum requirements for the Graduate Division as set forth in this catalog are essential for admission to the graduate program in chemistry. When the student is admitted to the Graduate Division, the chemistry advisor will evaluate the background in chemistry, other sciences and mathematics and a specific program will be designed. An entering student should present at least twenty-four semester hours of undergraduate chemistry credits. In consultation with the chemistry advisor, a program may be designed for students with less background to include prerequisites. Candidates for the master's degree in chemistry should seek the guidance of the chemistry advisor in selecting the six hours of free electives, and in fulfilling the research option.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CHEMISTRY

	Semester Hours
I. Specialization	26
A. Courses in chemistry at the 500 level or above	15
B. Research: One of the following:	
1905 599 Graduate Literature Search in Chemistry	2
or	
1905 595 Graduate Research and	
1905 600 Thesis	4 or 6
C. Graduate level electives in sciences or mathematics	5-9
II. Graduate level free electives	6
III. Comprehensive examination	

Minimum: 32 semester hours

CHEMISTRY

Course Descriptions

X 1905 501 TEACHING CHEMISTRY IN THE SECONDARY SCHOOL 3

Study made of objectives, recent trends, methods of presentation, courses of study, lesson planning, instructional aids, and subject matter of high school chemistry.

Prerequisite: 16 semester hours in chemistry.

X 1905 521 ADVANCED THEORETICAL INORGANIC CHEMISTRY 3

Current theories of inorganic structure, reactions and properties.

Prerequisite: X 1905 341.

X 1905 531 ADVANCED THEORETICAL ORGANIC CHEMISTRY 3

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.

Prerequisite: X 1905 430.

X 1905 532 ORGANIC SYNTHESIS 3

Detailed study of the art, methods, and the philosophy of organic synthesis beginning with a review of classical and modern synthetic methods, followed by the planning theory of synthesis and culminating in a study of elegant syntheses in the literature.

Prerequisite: X 1905 430.

X 1905 540 CHEMICAL THERMODYNAMICS 3

In-depth study of classical thermodynamics. Development of thermodynamic functions describing chemical systems in equilibrium with emphasis on systems of variable composition.

Prerequisite: X 1905 341 or instructor's permission.

X 1905 542 THEORETICAL PHYSICAL CHEMISTRY 3

Theoretical development of quantum mechanics and statistical mechanics as applied chemistry. Application of theoretical procedures to atomic and molecular structural and bonding.

Prerequisites: X 1905 341 and Y 1701 420.

X 1905 544 ELECTROCHEMISTRY 3

Principles and application of electrochemistry, relationship of electrochemical principles to classical thermodynamics, and practical applications of electrochemistry.

Prerequisite: X 1905 341.

X 1905 546 CHEMICAL SPECTROSCOPY 3

Introduction to the theory of molecular spectroscopy.

Prerequisite: X 1905 341.

X 1905 548 CHEMICAL KINETICS 3

Kinetics in its role of elucidating reaction mechanisms. Discussion of recent problems from the chemical literature including fast reaction and enzyme kinetics.

Prerequisite: X 1905 341.

X 1905 570 ADVANCED BIOCHEMISTRY 3

A detailed treatment of selected topics in biochemistry. Discussions of carbohydrates, lipid and amino acid metabolism, protein synthesis and nucleic acid chemistry.

Prerequisite: X 1905 370 or instructor's permission.

X 1905 590 SELECTED TOPICS-ADVANCED CHEMISTRY 3

An in-depth study of selected areas in either analytical, inorganic, organic, biochemistry or physical chemistry with special emphasis upon recent developments in the field.

Prerequisite: X 1905 341 or instructor's permission.

X 1905 595 GRADUATE RESEARCH 2-4

Directed individual laboratory investigation under guidance of faculty advisor. May be elected once or twice, maximum credit allowed is 4 semester hours.

Prerequisite: Completion of 12 semester hours in this graduate program; instructor's permission.

X 1905 599 GRADUATE LITERATURE SEARCH IN CHEMISTRY 2

An individual non-experimental investigation utilizing the scientific literature.

Prerequisite: Completion of 12 semester hours in this graduate program.

X 1905 600 THESIS 2

Writing, presentation, and defense of thesis before the chemistry faculty.

Prerequisites: X 1905 595, instructor's permission.

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Dr. Joseph S. Attanasio

Graduate Advisors: Dr. Elaine Barden, Dr. Warren E. Heiss, Dr. Michael Lindenman, Dr. Naomi Schiff-Myers, Dr. Gerald Woolf

Graduate students have the opportunity to specialize within the broad area of communication sciences and disorders in one of the five major tracks: (1) Speech-Language Pathology; (2) Audiology; (3) The Hard of Hearing and the Deaf; (4) Learning Disabilities, and (5) Early Childhood Special Education.

All five programs stress an interdisciplinary approach to the understanding and remediation of communication and learning disorders, with emphasis on development of clinical and teaching skills. Successful students

are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual, clinical and teaching skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

ADMISSION REQUIREMENTS

Speech-Language Pathology

Students wishing to matriculate in this area must have completed the equivalent of 30 semester hours from among the following areas:

A. Professional Education—A minimum of 9 semester hours including one course from each of the following: principles and practices of education, educational psychology and curriculum.

B. Specialization—A minimum of 12 semester hours from among the following: psychology and education of the handicapped, phonetics, anatomy and physiology of the auditory and vocal mechanisms, speech correction, speech pathology, clinical practices in speech correction, measurement of hearing (audiology).

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the master's degree. Practicum hours must match the disorder categories specified by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence.

Audiology and The Hard of Hearing and the Deaf

Students wishing to matriculate in this area must have a minimum of 24 semester hours from among the following: anatomy and physiology of the auditory and vocal mechanisms, speech and language development, speech pathology, measurement of hearing, auditory rehabilitation, clinical practice in audiology.

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the master's degree. Practicum hours must match the categories specified by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence.

Learning Disabilities

Students wishing to matriculate in this area must have a standard New Jersey teacher's certificate, one year of successful teaching experience; approval by Graduate Committee on Admission for this program; two letters of recommendation regarding teaching or therapy skills.

Note: State certification requirements for Learning Disabilities Teacher Consultants are subject to change.

Early Childhood Special Education

Students wishing to matriculate in this area must have a New Jersey instructional teacher's certificate.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMMUNICATION SCIENCES AND DISORDERS

	Semester Hours
I. Basic Requirements	9
One of the following:	
0824 503 Methods of Research	3
2001 510 Research Methods in Psychology	3
**1220 511 Advanced Speech Pathology	3
**1220 514 Communication Disorders of the Aged	3
**1200 584 Cleft Palate & Oral Deformities	3
*0824 507 Measurement & Evaluation in Cognitive Domain	3
or	
*0824 578 Testing & Evaluation	3
or	
*2001 578 Psychological Tests & Measurements	3
Two of the following:	
0830 500 Nature of Reading	3
1220 500 Acquisition of Speech & Language	3
1220 583 Language Disorders in Children	3
**1220 511 Advanced Speech Pathology	3
**1220 514 Communication Disorders of the Aged	3
**1220 584 Cleft Palate & Oral Deformities	3
Either:	
*2001 563 Theories of Learning	3
or	
*2001 560 Advanced Educational Psychology	3
The following electives may be taken in place of or in addition to required courses listed above by permission only.	
1220 502 Psychology of Oral Communication	3
2001 561 Developmental Psychology	3
0826 559 Dynamics of Group Process	3
2001 568 Psychology of Group Dynamics	3
0826 570 Counseling Adults	3
0826 580 Principles of Guidance & Counseling	3
2001 582 Behavior Modification	3
0826 585 Group-Guidance & Counseling Activities	3
II. Core Courses	8
Required of all students regardless of specialization	
2001 565 Psychology & Education of Socially & Emotionally Handicapped Children	3
or	
**1220 512 Advanced Diagnosis of Communication Disorders	3

**Required for certification in Learning Disabilities.*

***For Speech-Language Pathology specialization students only.*

*2001	573	Physiological Psychology	3
		or	
*1220	595	Medical & Physical Bases of Learning Disabilities	3
2001	561	Developmental Psychology	3
		(required for Teacher of the Emotionally Disturbed program) or	
1220	620	Orientation and Observation in Special Education	2
The following electives may be taken in place of or in addition to required courses listed above by permission only:			
1301	445	The Inner City Family	3
0821	540	Social Forces & Education	3
2001	553	Urban Psychology	3
2001	564	Psychology & Education of the Physically & Mentally Handicapped Children	3
2208	565	Sociology of Youth	3
1220	586	Education of the Handicapped	3
III.		Specialization Requirements	21

Speech-Language Pathology

1220	535	Advanced Seminar in Communication Disorders	6
1220	531	Advanced Audiology	3
1220	583	Language Disorders in Children	3
1220	592	Seminar in Research in Speech Pathology	3
		Electives	6

Completion of 150-300 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation of the graduate degree.

ASHA certification requirements in speech pathology include a 3 semester hour undergraduate or graduate course in aural rehabilitation.

Audiology

1220	536	Seminar in Audiology	6
1220	531	Advanced Audiology	3
1220	593	Seminar in Research in Audiology	3
		Elective in auditory rehabilitation	3
		(1220 537, 569, 570 or 571)	
		Departmental Electives in Audiology	6

The Hard of Hearing and the Deaf

1220	531	Advanced Audiology	3
1220	561	Clinical Practicum on Teaching the Deaf	3
		(150 hours)	
1220	569	Teaching Total Communication to the Deaf I	3

*Required for certification in Learning Disabilities.

1220 570	Teaching Total Communication to the Deaf II	3
1220 571	Methods of Teaching the Deaf	3
1220 578	Seminar in Research in the Hard of Hearing and the Deaf	3
Elective		3

Learning Disabilities

1220 580	Diagnosis and Correction of Children with Learning Disabilities I	3
1220 581	Diagnosis and Correction of Children with Learning Disabilities II	3
1220 582	Remediation of Basic Skills	3
1220 590	Practicum in Learning Disabilities	3
1220 589	Seminar in Research in Learning Disabilities	3
Electives		6

Early Childhood Special Education

1220 504	Neuromotor Development of the Young Child	3
1220 505	Language Disordered Preschoolers: Identification/Education	3
1220 506	Assessment of Preschool Handicapped Children	3
1220 507	Implementing Programs for Young Handicapped Children	3
1220 508	Parents of Young Handicapped Children: The Educator's Role	3
1220 510	Field Experiences in Early Special Education	3

Special Topics Seminar in Psychology

2001 659	Typical and Atypical Development of Pre-School Children	3
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Note: 1220 509 Seminar in Research in Early Childhood Special Education (3 semester hours) is required as part of Basic Requirements. Other basic and core requirements are determined through advisement.

IV. Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

Communication Sciences

1220 522	Advanced Phonetics	2
1220 534	Advanced Anatomy and Physiology of the Vocal and Auditory Mechanisms	3
1220 572	Speech Science and Instrumentation	3

Communication Disorders

Speech Pathology

1220 511	Advanced Speech Pathology	3
1220 512	Advanced Diagnosis of Communication Disorders	3
1220 513	Parent Counseling in Communication Disorders	3
1220 514	Communication Disorders of the Aged	3
1220 515	Voice Disorders	3
1220 532	Practicum in Speech Rehabilitation	2-3
1220 584	Cleft Palate and Oral Deformities	3
1220 585	Stuttering	3
1220 591	Organization and Administration of Communication Disorders Program	3
1220 594	Independent Study	1-3
1220 533	Supervision of Speech and Hearing Programs	3

Audiology

1220 537	Hearing Aids and Hearing Aid Selection	3
1220 538	Differential Audiometry	3
1220 540	Practicum in Audiolgy	1-3
1220 542	Identification Audiometry and Conservation Programs	3

Deafness and Hearing Impairment

1220 574	Psychology of Deafness	3
1220 500	Speech and Language Acquisition	3
1220 501	Language Development in the Primary Grades	3

Learning Disabilities

1220 586	Education of the Handicapped	3
2001 564	Psychology and Education of the Physically and Mentally Handicapped Child	3
2001 561	Developmental Psychology	3
2001 582	Behavior Modification	3
0826 559	Dynamics of Group Process	3

Additional Department Requirements

1. Students pursuing concentrations in Learning Disabilities and Early Childhood Special Education are required to take an examination to assess proficiency in the understanding of basic concepts, issues, and practices. This examination will be given prior to admittance into practice and research courses. Passing this examination is a prerequisite for entry into practice and research courses. Students apply for this examination in consultation with their advisors. If the examination is failed, appropriate plans of action will be developed by advisor and student to address deficiencies.

2. Students in all concentration areas are required to complete successfully a comprehensive examination or project. Comprehensive projects and examinations are designed to give students an opportunity to demonstrate

their ability to integrate major concepts while working closely with the faculty. Comprehensive projects and examinations are to be culminating activities in the students' programs.

Note that there is a limit to the number of times a student may take the comprehensive examination. Comprehensive projects may require revisions before being accepted and there is a limit to the number of revisions allowed. Students are required to consult with their advisors for specific information on these additional department requirements.

3. Majors in speech-language pathology and audiology must complete a total of 300 hours of supervised direct clinical experience. Up to 150 hours completed as an undergraduate will be accepted toward the requirement. Majors in The Hard of Hearing and the Deaf and in Learning Disabilities must complete a minimum of 150 clock hours of supervised experience. Majors in Early Childhood Special Education must complete a field experience.

Courses are offered in this department that meet prerequisite requirements in Speech-Language Pathology for admission to the graduate program. In addition, post-master's students may apply for admission to a program leading to certification for Learning Disabilities Teacher-Consultant.

REQUIREMENTS FOR CONCENTRATION IN TEACHER OF THE SOCIALLY AND EMOTIONALLY HANDICAPPED

One course of study in the College's interdepartmental programs in special education prepares students to teach socially and emotionally maladjusted children. This concentration, coordinated by the Psychology Department, also leads to New Jersey certification in teacher of the handicapped. (Please refer to the Psychology section of this catalog, for M.A. in Educational Psychology, interrelated graduate program in Special Education.)

Post-Master's Certification Program in Learning Disabilities

A post-master's candidate seeking certification in learning disabilities must complete twenty-four semester hours in the area of study listed below. Qualified teachers, however, who have already earned a master's degree in education, reading, speech correction, psychology, special education, or similar fields, may apply appropriate credits toward the 24 semester hours required for Learning Disabilities Teacher-Consultant certification.

Note: State certification requirements for Learning Disabilities Teacher-Consultants are subject to change.

REQUIREMENTS FOR CERTIFICATE IN LEARNING DISABILITIES

The graduate advisor will examine the post-master's applicant's transcripts of completed graduate courses in order to determine which of the following

courses may be applied toward certification for Learning Disabilities Teacher-Consultant:

A. Required Studies (not necessarily in separate courses):

	MSC Equivalent
✓ 1. Education of the Handicapped	2001 564 or 1220 <u>586</u>
✓ 2. Learning Theory	2001 563 or 2001 <u>560</u>
3. Physiological Bases of Learning	2001 573 or 1220 <u>595</u>
✓ 4. Orientation to Psychological Testing	2001 <u>578</u> or 0824 <u>578</u>
✓ 5. Remediation of Basic Skills	1220 <u>582</u>
6. Diagnosis and Correction of Learning Disabilities	1220 <u>580</u> & 581
7. 150 clock hours supervised practicum (minimum)	1220 590

B. Electives

1. Group Dynamics	0826 559; 2001 568
2. Teaching the Emotionally Disturbed Child	2001 565
3. Curriculum Development for the Handicapped	2001 541
4. Child Growth and Development	2001 561
5. Language Development and Disorders	1220 563
6. Teaching of the Culturally Handicapped	2001 553; 2001 541
7. Interviewing and Counseling	0826 580; 2001 593
8. Educational Psychology	2001 560
9. Community Resources	0826 560; 1220 620

Each student's record will be evaluated by the Office of the Registrar after completing all, or the necessary part, of the 24 semester hour requirement. If work has been satisfactorily completed, and all other requirements have been met, the student will be recommended to the Bureau of Teacher Preparation and Certification for certification as a *Learning Disabilities Teacher-Consultant*.

The requirements for this endorsement, in addition to the completion of the prescribed academic program, are:

1. A standard New Jersey teacher's certificate.
2. Three years of successful teaching experience (MSC requires two letters of recommendation from a current or previous employer and a notarized statement verifying at least three years of full-time paid employment as a teacher or clinician).
3. A master's degree in a related field from an accredited college.

COMMUNICATION SCIENCES AND DISORDERS

Course Descriptions

Semester Hours

L 1220 500 SPEECH AND LANGUAGE ACQUISITION 3

The nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.

L 1220 504 NEUROMOTOR DEVELOPMENT OF THE YOUNG CHILD 3

The study of typical and atypical patterns of neuromotor organization and development, including general principles of stability, mobility, and the equilibrium as they influence postural stability is presented. Implications for the educator of the young handicapped child will be stressed.

L 1220 505 LANGUAGE DISORDERED PRESCHOOLERS 3

A study of typical and atypical patterns of language development in the child from the pre-verbal period of infancy to the age of five will be undertaken.

L 1220 506 ASSESSMENT OF PRESCHOOL HANDICAPPED CHILDREN 3

Screening for and assessment of handicapping conditions in children from birth to age five are studied. Techniques and instruments commonly used, administration and interpretation of results of key instruments, and the use of data to write an effective individualized educational program (IEP) and instructional guide are presented.

L 1220 507 IMPLEMENTING PROGRAMS FOR YOUNG HANDICAPPED CHILDREN 3

The principles of learning and teaching will be applied to the preschool handicapped child. Adapting major curriculums and implementing IEPs (Individualized educational plans) in various settings will be the major focus of the course.

Prerequisite: L 1220 506.

L 1220 508 PARENTS OF YOUNG HANDICAPPED CHILDREN: THE EDUCATOR'S ROLE 3

Methods to help preschool educators cope more effectively with parents of handicapped children will be taught. Sensitivity to the problems of parenting handicapped children, the emotional and legal issues involved, and the development of the skills necessary for appropriate means of intervention will be the major focus of the course.

L 1220 509 SEMINAR IN RESEARCH IN EARLY SPECIAL EDUCATION 3

Research design, statistical analysis and methods for writing a research paper are studied. Significant problems in the field of early special education are investigated and discussed. Published research projects are evaluated.

L 1220 510 FIELD EXPERIENCES IN EARLY SPECIAL EDUCATION 3

Supervised experience in diverse field settings with preschool children, including typical and atypical children, and in an urban setting is provided. Seventy-five (75) clock hours of field experience is required.

L 1220 511 ADVANCED SPEECH PATHOLOGY 3

Modern techniques of speech rehabilitation and review of research findings in voice, articulation, rhythm and symbolization disorders. Speech rehabilitation integrated with related health services and educational services in schools and special centers.

Prerequisite: Neurophysiological Disorders Of Communication or equivalent course.

L 1220 512 ADVANCED DIAGNOSIS-COMMUNICATION DISORDERS 3

Continuation of diagnosis procedure including tests for multiplehandicapped children with communication disorders. Opportunities provided for interviewing parents, testing and report writing.

L 1220 513 PARENT COUNSELING IN COMMUNICATION DISORDERS 3

Parent-child-clinician triad analyzed with emphasis on parent counseling regarding home management of the child, interpretation of diagnostic and therapy findings and referral.

Prerequisite: Psychodynamics Of Communication Disorders or equivalent.

L 1220 514 COMMUNICATION DISORDERS OF AGED 3

Communication disorders associated with pathologies that tend to occur in later life, e.e., aphasia, multiple sclerosis, parkinsonism and cerebral arteriosclerosis.

Prerequisite: Neurophysiological Disorders Of Communication or equivalent course.

L 1220 515 SEMINAR IN VOICE DISORDERS 3

Selected disorders of voice production. Consideration given to etiology, pathology and therapy related to vocal nodules, contact ulcers, paralysis of the vocal cords and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions.

L 1220 516 HIGH RISK INFANTS-EARLY INTERVENTION PRACTICES 3

The rationale and methods for early intervention with high risk infants and their families are studied (birth to three). Examination of current research and study and observation of practices for early intervention in home, hospital, and community agency settings will be the major focus of the course.

L 1220 531 ADVANCED AUDIOLOGY 3

Increase skill in administering tests for pure-tone and speech reception thresholds; evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering; pre- and pos-surgical audiometry and special problems of differential diagnosis in testing children.

Prerequisite: Clinical Procedures In Audiology or equivalent course.

L 1220 532 PRACTICUM IN SPEECH REHABILITATION 3

Practical application of diagnostic and rehabilitative techniques with children and adults who have major speech and language problems. Qualified students participate in specialized laboratory experiences: planning and supervising speech therapy sessions, providing rehabilitative services, interviewing applicants and administering audiometric tests.

Prerequisite: 60 clinical hours in speech practicum.

L 1220 534 ADVANCED ANATOMY & PHYSIOLOGY OF THE VOCAL AND AUDITORY MECHANISMS 3

Basic anatomy of mechanisms of speech reception and expression; the integrated functioning of the central nervous system, the autonomic nervous system and the endocrine system; abnormalities of structure and function of the speech and hearing processes; medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissection.

Prerequisite: Anatomy and physiology of speech system or equivalent course.

L 1220 535 ADVANCED SEMINAR IN COMMUNICATION DISORDERS 6

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders of organic etiology.

Prerequisite: Permission of graduate advisor.

L 1220 537 HEARING AIDS AND HEARING AID SELECTION 3

Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds.

L 1220 538 DIFFERENTIAL AUDIOMETRY 3

Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.

L 1220 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

L 1220 540 PRACTICUM IN AUDIOLOGY 1-3

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: L 1220 538.

L 1220 541 ADVANCED PRACTICUM IN AUDIOLOGY 3

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: L 1220 538.

L 1220 569 TEACHING TOTAL COMMUNICATION TO THE DEAF PART I 3

This course is the first part of a 6 semester hour sequence. It is designed to provide students with a general orientation to all aspects of communication as it relates to deafness. The role of total communication within the educational setting will be explored in depth and students will develop basic skill in manual communication.

L 1220 570 TEACHING TOTAL COMMUNICATION TO HARD OF HEARING AND DEAF II 3

Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.

Prerequisite: L 1220 569.

L 1220 571 METHODS OF TEACHING THE DEAF AND HEARING IMPAIRED 3

Pre-school to the adult level, with emphasis on language development and compensatory learning.

L 1220 574 PSYCHOLOGY OF DEAFNESS 3

Effects of deafness and hearing loss on the intellectual, social and emotional development of the child; congenital and acquired hearing loss and the behavior of hearing members of the client's world.

L 1220 575 LANGUAGE DEVELOPMENT FOR THE DEAF 3

Communication problems of the deaf with emphasis on application of psycholinguistic theory to development of language skills.

L 1220 576 AURAL REHABILITATION FOR ADULTS 3

Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.

L 1220 578 SEMINAR IN RESEARCH IN THE HARD OF HEARING AND DEAF 3

Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental design.

L 1220 580 DIAGNOSIS AND CORRECTION OF CHILDREN WITH LEARNING DISABILITIES I 3

Conceptual model of learning disabilities; parameters of the diagnostic evaluation of the child who is failing in school. Tests demonstrated; students trained in analyzing results and prescribing individualized educational plans.

L 1220 581 DIAGNOSIS AND CORRECTIONS OF CHILDREN WITH LEARNING DISABILITIES II 3

Continuation of L 1220 580. Developing instruction plans from diagnostic data. Parameters of managing learning; disabled children within and outside the regular classroom; consultation techniques for use with classroom teachers.

Prerequisite: L 1220 580.

L 1220 582 REMEDIATION OF BASIC SKILLS 3
(METHODS AND MATERIALS)

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school.

Prerequisites: L 1220 580, 581.

L 1220 583 LANGUAGE DISORDERS OF CHILDREN 3

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood aphasia, deafness, retardation and emotion problems.

Prerequisites: L 1220 500 or equivalent for speech pathology majors, L 1220 580 for learning disabilities majors.

L 1220 584 CLEFT PALATE AND ORAL DEFORMITIES 3

Etiology and characteristics of cleft palate and oral deformities of malfunctions in children; speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

L 1220 585 STUTTERING 3

Principles and methods of speech therapy with children and adults who stutter. Methods of evaluation, specific techniques for speech therapy, and principles coordinating speech therapy with home and school life.

L 1220 586 EDUCATION OF THE HANDICAPPED 3

Role of the teacher on the professional team, state and federal legislation relating to handicapped children and adults and community resources for the special child.

L 1220 589 SEMINAR IN RESEARCH IN LEARNING 3
DISABILITIES

Significant problems in field of learning disabilities investigated, and published research projects evaluated. Critical analysis and experimental design.

Prerequisites: Permission of graduate advisor and L 1220 580, 581, 582.

L 1220 590 PRACTICUM IN LEARNING DISABILITIES 3

Clinical diagnosis and teaching of children with learning disabilities. Supervision by departmental staff is given to fulfill the 150 hour requirement. Arrangements can be made for both on-campus and off-campus experiences. (Matriculated L.D. majors).

Prerequisites: L 1220 580, 581, 582, instructor's permission.

L 1220 592 SEMINAR IN RESEARCH IN SPEECH PATHOLOGY 3

Significant problems in the field investigated and published research projects evaluated. Critical analysis and experimental design.

Prerequisite: Instructor's permission.

L 1220 593 SEMINAR IN RESEARCH AUDIOLOGY 3

Significant problems in the field of audiology evaluation of published research projects critical analysis and experimental design.

Prerequisite: Instructor's permission.

L 1220 594 INDEPENDENT STUDY 1-3

Students select an area of communication sciences and disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation.

Prerequisite: Instructor's permission.

L 1220 595 MEDICAL AND PHYSICAL BASIS OF LEARNING DISABILITIES 3

Critical dimensions of the neurological and physiological growth of the child. The scope and meaning of the pediatric and neurological examination and relevance of medical data to explain learning disorders. Aspects of drug and nutritional therapy will be explained.

L 1220 596 SEMINAR AND PRACTICUM IN LEARNING DISABILITIES 3

The course is designed to help students meet the requirements for state certification. Under supervision students will administer and interpret educational instruments and coordinate assessment data into prescriptive reports and programs. Seminars will deal with current issues and practices in the field.

Prerequisites: L 1220 0590, 582, 581, 580, instructor's permission.

L 1220 597 PRACTICUM AND SEMINAR IN TEACHING HANDICAPPED CHILDREN 6

This course provides students with direct experience in teaching children who are intellectually, physically, emotionally and/or developmentally handicapped in a controlled internship program. Students learn to analyze and carry out individualized education programs developed by child study teams. In addition to 90 hours of direct clinical teaching in an approved placement, each student must participate in class seminars, conferences and planning sessions.

L 1220 620 ORIENTATION AND OBSERVATION IN SPECIAL EDUCATION 2

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers or special class guest lecturers.

CONTINUING EDUCATION

Director: Mr. Ray J. Ast

The faculty and staff in Continuing Education provide program services to students, volunteer groups, instructors, counselors, supervisors, administra-

tors and others in communities and agencies throughout New Jersey and the nation. The programs offer direct service to community adult education development efforts, training programs for industrial and institutional employee career mobility, adult basic education, English as a second language and high school completion programs, continuing education unit technical assistance, and selected contractual consultant and service assistance. The Center for Continuing Education utilizes College and community resources in the development of programs serving older adults. Information dissemination of adult basic secondary and continuing education, community education, and gerontological materials as well as resources is made available. Graduate credit courses are offered in adult and community education for individuals entering the field or seeking professional advancement. A specialization in adult education is also offered in conjunction with the Educational Leadership's Master of Arts program for training personnel. The College's Tuition Waiver for Older Adults Program is administered by the staff.

CONTINUING EDUCATION

Course Descriptions

Semester Hours

1 0807 550 PHILOSOPHIC PERSPECTIVES: ADULT CONTINUING 3 **EDUCATION IN THE UNITED STATES**

An examination of selective philosophic assumptions as well as social/cultural/political influences affecting the formats/systems and processes underlying programs of continuing education for adults in the United States.

1 0807 551 HISTORIC PERSPECTIVES: THE DEVELOPMENT 3 **OF ADULT CONTINUING EDUCATION IN** **THE UNITED STATES**

An examination of the theories, forces and events affecting origins and developments of adult education formats and movements in the United States.

1 0807 553 ADMINISTRATION AND SUPERVISION OF 3 **ADULT CONTINUING EDUCATION**

Considers the various administrative and supervisory roles in directing programs in adult continuing education. Particular attention will be given to an analysis and application of the technical, human relation and conceptual skills of administration to problems identified in adult continuing education.

1 0807 581 COMMUNITY EDUCATION: INDEPENDENT STUDY 3

This course is designed to provide to graduate students an opportunity to increase their professional competence through a community education research project developing from their own need or problem area. Custom-designed in consultation with the continuing education director, to bring an understanding and/or possible recommendations and solutions.

Prerequisite: Director's permission.

1 0807 584 SPECIAL ISSUES: ADULT CONTINUING, 1-3
COMMUNITY EDUCATION, GERONTOLOGY

For practitioners in gerontology, workshops in adult education and community education. A focus on cooperation, shared resources and funding for human services organizations. Workshop series specifically designed to examine theories and practices in field of adult continuing and community education. Expressed needs in the field are basis for topical selection and specific workshop designs.

1 0807 651 INDEPENDENT STUDY IN ADULT CONTINUING 3
EDUCATION

Designed for individuals who in consultation with an advisor, wish to undertake either an indepth analysis of a specific problem, or to design and implement a particular project in adult continuing education.

COUNSELING, HUMAN SERVICES AND GUIDANCE

Chairperson and Graduate Advisor: Dr. Arlene King

Counseling, human services and guidance are an integral part of the American scene. Schools and colleges, community agencies and industry, and state and federal governments have all developed services to aid students, workers and others to adjust to a changing society. Montclair State College has been a leader in the preparation of professional personnel to staff these efforts, in developing programs to identify new areas of counseling services, and in providing new approaches to the training of counselors and human services personnel.

From the initial core of four basic courses through the field-work experience of 150 hours, the department offers courses to train counselors and human service personnel to work with inner-city youth, black and Hispanic communities, women, veterans, prisoners, reentry adult learners, drug and alcohol abusers, as well as to work in the more traditional roles in public school guidance and social work. An initial core program, consisting of four courses applicable to all specializations offered by this department, is required of all students entering the program.

After this core is completed, the student and an appointed faculty advisor will work out an individual program designed to meet his/her particular interests and needs. Specialized programs can be designed for the

teacher interested in learning more about affective education, for the person whose sights are on counseling at the college level or on certification in alcoholism counseling, for the manager who wants to know more about organizational development, and for many other individual cases.

CERTIFICATION PROGRAMS

Although members of the department are involved in serving these special interests, we shall continue to emphasize state certification programs for guidance counselors and school social workers. Both of these state certifications require additional credentials. The Student Personnel Services Certification for guidance counselors requires a teaching certificate and one year of full time teaching experience under certification. Those wishing to be certified as school social worker must have a minimum of 3 years of teaching experience or 3 years of experience in social work under approved supervision. Students should consult their graduate advisor for specific certification requirements for both of these programs. Courses are also available for persons seeking certification as Director of Pupil Personnel Services.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COUNSELING, HUMAN SERVICES AND GUIDANCE

	Semester Hours
I. Core Courses	12
Required of all students regardless of specialization	
559 Dynamics of Group Process	3
577 Counseling Theories	3
588 Techniques of Interviewing and Counseling	3
503 Methods of Research	3
II. Electives in the Social and Behavioral Sciences	9
These will be decided by the student and advisor after the satisfactory completion of the four core courses and after a decision has been made as to the specialization desired.	
III. Specialization requirements	15
These courses will be decided after the four core courses have been completed, and the student has decided upon a specialization. Here are a few of the choices available:	
(a) State Certification Program in Guidance and Counseling	
(b) State Certification Program in School Social Work	
(c) Dual Certification Program for both Guidance and Counseling and School Social Work (one additional course required)	
(d) Human Services which permit such areas of specialization as:	
Individual Counseling	

Affective Education
 Human Resources and Organizational Development
 Counseling in Higher Education
 Alcoholism Counseling

- IV. Fieldwork 3
 Depending upon concentration: 654, 655, 656, 657, 658.
 The fieldwork in each concentration consists of a field placement approved by the Fieldwork/Practicum instructor. A minimum of 150 hours of observation and contact with clients at the field site is required. The student will be supervised by a qualified person on the site; a faculty member from the college will make periodic visits to discuss the fieldwork with the student and the supervisor.
- V. Comprehensive Examination or Thesis
 Nearing completion of the program, the student will register for the comprehensive examination given in the Fall or the Spring. Students selecting the thesis option should register for 0826 650 Research Seminar and Thesis Writing.

COUNSELING, HUMAN SERVICES AND GUIDANCE

Course Descriptions

**Semester
Hours**

2 0826 550 ADVANCED PROCEDURES IN GROUP COUNSELING 3

This is an advanced course for students who have demonstrated an interest in and an aptitude for the group process through the successful completion of 2 0826 559 Dynamics of Group Process. This course combines theory with experience. It focuses on the examination of systematic approaches for the understanding of leadership in group counseling. Each student must make available the hours of 5:00-9:30 p.m. on the night the course is offered.

Prerequisites: 2 0826 559, or instructor's permission.

2 0826 551 GUIDANCE AND CAREER EDUCATION 3 **IN THE CLASSROOM**

This course is designed for teachers, counselors and counselors-in-training who are concerned with both guidance within the classroom and with the means of implementing career education/life planning within the classroom. The course emphasizes the role of the teacher and counselor in classroom guidance and career education/life planning. Field visits may be included in this course.

2 0826 556 INTRODUCTION TO AFFECTIVE EDUCATION 3

In this course the focus is on understanding the affective side of the teaching-learning process and its importance to education in general. Through group participation, each student will begin the development of skills for dealing with feelings in the classroom.

2 0826 557	TECHNIQUES AND EXERCISES IN GROUP DYNAMICS	3
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A structured experiential course: participating in and evaluating activities and exercises of individuals who work with small groups. Students will modify old designs and create new ones as they compile their own ideas, forms and exercises.

Prerequisite: 2 0826 559 or equivalent course, instructor's permission.

2 0826 558 CONSULTATION IN ORGANIZATIONAL DEVELOPMENT 3
DEVELOPMENT

A laboratory based course which focuses on the role of the organizational consultant. Emphasis on planning, providing help and evaluating activities. Diagnostic and behavioral skills to aid individuals and groups within organizations will be developed. Designed for those considering consultation work in business, industry, government, penology, education and community organizations.

Prerequisite: 2 0826 559 or instructor's permission.

2 0826 559 DYNAMICS OF GROUP PROCESS 3

A laboratory-based course for the development of group skills and understandings. Focus is on experimental learning and personal growth. Reading in human interaction theory will be related to actual group participation.

2 0826 560 MEDICAL PROBLEMS IN EDUCATION 3

In this course the role of the educator is studied in relation to the following subject areas: childhood, chronic and contagious diseases, nutritional problems, narcotics and psycho-socio-medical pathologies. The impact of health problems on the family, school and community is emphasized throughout. Required for certification in school social work.

2 0826 561 MARITAL AND FAMILY THERAPY 3

This course focuses on the core concepts fundamental to an understanding of marital and family therapy. Emphasis is on a frame of reference for family therapy strategies and review of current research on family process and treatment. Course is intended for practitioners in the helping professions, including social workers, counselors, ministers, probation and parole officers, alcohol and drug counselors.

Prerequisites: Core courses and approval of instructor.

2 0826 562 SOCIAL CASE WORK I 3

This course examines the theory and practice of social casework. Focus is on developing casework techniques in interviewing, diagnostic skills and intervention modalities. Utilizing case studies from school settings and social agencies, critical examination of major casework methods are undertaken in terms of diagnosis and functioning and intervention appropriate for the social treatment of a client – child or adult. Emphasis is on school social work, the child study team, the broad range of learning and behavioral problems, the appropriate use of casework help, the relationship between theory and practice and developing beginning skills in transferring and using knowledge appropriate to problem situations in the school and community. Required for certification in school social work.

2 0826 563 SOCIAL CASEWORK II**3**

This course is a continuation of Social Casework I on a more advanced level. It entails critical examination of major social work methods in diagnosis, social functioning and relevant intervention techniques appropriate for the social treatment of individuals. Required for certification in school social work.

Prerequisite: 2 0826 562 or equivalent course.

2 0826 564 CASEWORK WITH CHILDREN**3**

This course examines the treatment role of the social worker with young clients experiencing personal problems. Focus is on understanding the array of interventive strategies appropriate to social work practice, treatment considerations in role formulation, and the domain and focus of practice which serves as a guide for decisions about focus, scope, and specific goals of treatment. Case studies from school and community agencies are utilized in discussing differential diagnosis, intervention techniques, goal setting and the professional relationship as the means and context within which treatment takes place.

Prerequisite: 2 0826 562 or equivalent.

2 0826 565 ROLE OF SCHOOL SOCIAL WORKER**3**

This course examines the historical development of social work in a school setting; its functional relationship to other supportive services, e.g. child study team, guidance and counseling and administration. Implicit in this course is the understanding of "brief casework" as the primary treatment tool for problem solving and the importance of social diagnosis, knowledge of and ability to relate to community resources, consultative and referral skills and ability to function in a non-social work setting.

2 0826 566 FIELD WORK-GROUP LEADERSHIP**3**

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students will join an ongoing task centered group either as a member or its leader and will make a problem diagnosis, procedural plan and a method of evaluation. In-progress and final reports will be discussed.

Prerequisite: 2 0826 559 or instructor's permission.

2 0826 567 RESEARCH SEMINAR IN GROUP PROCESSES**3**

Students develop, carry out and evaluate a research project in small group processes. They work singly or in groups to investigate the application of group work to their major fields of interest.

Prerequisite: 2 0826 559.

2 0826 568 THEORETICAL CONSTRUCTS IN SOCIAL GROUP INTERACTION**3**

Problems and current practices in small group interaction, social restructuring and cultural encounter. Survey of literature on the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of self and others.

2 0826 569 CASEWORK TREATMENT IN THE CONTEXT OF THE FAMILY 3

Course is a study of objectives and characteristics of family treatment and the caseworker's use of self within the context of the family. Relevant concepts about the family as a social system, interactional processes, role structure and conflicts, individual psychodynamics and situational variables are examined in terms of family diagnosis and treatment techniques within the framework of the family as seen in the literature and practice.

Prerequisites: 2 0826 562, 563, 570 or equivalent courses.

2 0826 570 COUNSELING ADULTS 3

This course is designed to identify the special needs of adults as they seek counseling. Special attention is given to the counseling needs of college students, adults returning to academic environs, women, minority groups, the handicapped, and other adults with special needs. Case studies, field visits, and supervised practice will be basic techniques employed.

Prerequisite: 2 0826 577 or instructor's permission.

2 0826 571 PEER COUNSELING 3

An advanced course dealing with the concept and experience of peer counseling. The development, organization, implementation, and evaluation of peer counseling programs and activities. This course involves lectures, seminars, and laboratory experiences. In laboratory, students counsel each other. In seminar, they evaluate their peer counseling activities.

Prerequisites: 2 0826 564, 577.

2 0826 572 SELF-CRITIQUING FOR IMPROVED COUNSELING COMPETENCE 3

Presentation of a theory and system for improving one-to-one counseling through a process of self-critiquing tape recorded interviews of counseling sessions conducted by course participants. Specific counseling behaviors are identified and examined and strategies are developed leading to the attainment of individual behavioral goals.

Prerequisite: 2 0826 588 or equivalent course.

2 0826 573 COUNSELING FOR CAREER MOBILITY 3

Course designed for counselors, staff development administrators, personnel counselors, trainers, individuals involved in career planning and personal development for employees or clients in academia, social agencies, business/industry. Prepare professionals to use current appropriate counseling techniques in career areas. Focus on career awareness and the changing market, possibilities of vertical/horizontal career mobility, job re-entry/re-training, and learning skills to facilitate self-awareness in relation to the world of work.

2 0826 574 COUNSELING IN AN INDUSTRIAL SETTING: 3
EMPLOYEE ASSISTANCE PROGRAM (EAP)

Course focuses on counseling in the industrial/business environment; emphasis is on a frame of reference for intervention, assessment, diagnosis, treatment and referral. Reviews the history of employee assistance programs, discusses conceptual models, strategies and tactics of counselor intervention, clarifies other important issues related to organizational and employee needs. Differences between using resources in the work place and community agencies are explored.

Prerequisites: Core courses or instructor's approval.

2 0826 576 ACTION METHODS IN COUNSELING 3

Course is designed to provide an opportunity for students to experience and to develop facility with counseling methods which will enable their clients to explore the roles that they play in their daily lives and to find new and more effective ways of expressing these roles. Through the use of action-oriented techniques, students will increase their spontaneity and will be freer to unfetter creativity in others.

2 0826 577 COUNSELING THEORIES 3

Entails a comprehensive study of the major schools of thought in psychotherapies, existentialism, rogerian psychology, rational and motive, and psychoanalysis, among others, are studies in the context of social work, counseling, and psychological practice. Emphasis is in helping prospective human service professionals in recognizing that different theories are effective not because of their unique elements, but because in practice they include the basic common elements of all theories.

2 0826 579 THE USE OF TESTS IN COUNSELING 3

This course designed to familiarize counselors and school social workers with techniques for use and interpretation of test results. Implicit in this course will be the use of appropriate statistical analysis to draw conclusions for research and program development. Laboratory techniques will be used to give students practical opportunities to administer, score, and interpret a group of tests. Some time will be devoted to the planning of testing programs.

2 0826 580 PRINCIPLES OF GUIDANCE AND COUNSELING 3

Introduces the student to guidance and counseling in academic settings, kindergarten to grade 12. Areas receiving significant attention are: development of guidance as an integral part of education, career and life education, record-keeping, educational and socio-moral guidance, the role of counselor as change agent, public relations, measurement for guidance, fundamentals of interviewing and counseling, and the uses of groups for counseling.

2 0826 581 COMMUNITY RESOURCES 3

This course deals with the various agencies, industries and institutions available in the surrounding communities for use in guiding and referring clients. In addition to becoming familiar with the location and nature of these facilities students learn the techniques for arranging client interviews and visits. Class discussion and personal research are supplemented by field trips.

Prerequisite: 2 0826 577.

2 0826 582 CAREER COUNSELING 3

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training.

Prerequisite: 2 0826 577.

2 0826 583 EDUCATIONAL GUIDANCE 3

This course is concerned with the facilities available for education after high-school graduation, the problem of further training for pupils leaving school before completing high school programs of alternative education, and the academic problems of students while in school. A brief survey of colleges and college admission procedures is made.

Prerequisite: 2 0826 577.

2 0826 584 GROUP COUNSELING: THEORY AND PRACTICE 3

Course is designed to familiarize counselors, social workers and other practitioners with the use of group counseling methods for the facilitation of personal growth; the treatment of social and emotional disorders and the socio-emotional education and enrichment of the individual. Entails examination of the historical and cultural context for group methods. Emphasis on diagnosis, group membership, group process, relevant social, psychological and educational theories in group behavior, treatment and strategies.

2 0826 585 GROUP GUIDANCE AND COUNSELING ACTIVITIES 3

This course places emphasis on the distinctions between guidance and counseling techniques and the appropriate group activities for each purpose.

Prerequisite: 2 0826 577.

2 0826 586 ELEMENTARY SCHOOL GUIDANCE SERVICES 3

This course is designed for elementary and middle school teachers and counselors-in-training who are concerned with supportive services related to human growth and life planning as a developmental process for their students. Special attention is given to the identification of problem areas and referral services.

2 0826 587 ADMINISTRATION AND SUPERVISION OF GUIDANCE PROGRAMS 3

Developing and administering programs of student registration, theory and techniques of scheduling, and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district or agency. Examination of current guidance practices; formation of proposals for improvement in programs where the student is working as a counselor and/or director.

Prerequisite: 2 0826 577, 589 or equivalent course.

2 0826 588 TECHNIQUES OF INTERVIEWING AND COUNSELING 3

Included in this course are techniques applicable to the interviewing and counseling of individuals and small groups. Directive as well as client-centered approaches are utilized. Specific attention is given to techniques such as role-playing, case studies, and audio/video tape feedback.

Prerequisite: 2 0826 577.

2 0826 589 STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION 3

This course is a study of the student personnel functions in two-year and four-year colleges. The areas to be included are: personal counseling, financial aid, dormitory management, health program, student activities and social programs; course selection, job placement, college admission and academic retention, administration and supervision of the program.

2 0826 590 COUNSELING THE ALCOHOLIC 3

Course entails a comprehensive survey of concepts and complexities generic to alcohol-related dysfunctions. Investigates contemporary counseling theories and practices compatible with the pathology. Emphasis in helping prospective human service professionals develop diagnostic, attitudinal, and behavioral skills germane to case discovery and intervention.

2 0826 591 ADVANCED SEMINAR IN ALCOHOLISM COUNSELING 3

Methods for selection of treatment modalities for the alcoholic client will be studied along with typical behavior patterns of alcoholics. Major counseling theories will be reviewed in terms of what they offer to recovering alcoholics. Counseling fieldwork in an alcoholism treatment center will be required of each student.

Prerequisite: 2 0826 590.

2 0826 601 WORKSHOP IN EDUCATION GUIDANCE 3

Students will be exposed to experiences designed to reinforce previous leadership and membership skills. They will have the opportunity to develop, carry out and evaluate a project concerned with small groups. Students may work singly or in groups to carry out their project designs.

2 0826 650 RESEARCH SEMINAR & THESIS WRITING 3

This course may be substituted for the Comprehensive Exam. It is available on a year-long basis, with an Incomplete granted at the end of the first semester to allow students the full year stipulated to complete a thesis. Students must follow the MSC Thesis Guidelines which may be obtained from the Graduate Studies Office and consult their department advisor before beginning the process.

2 0826 652 COUNSELING THE FAMILY 3

The course provides the opportunity for students to gain practical experience in leading family counseling sessions. Students will be expected to lead these groups with staff members and be available to assist in all learning endeavors.

Prerequisites: 2 0826 559, 570, 577, majors only, instructor's permission.

2 0826 654 SUPERVISED FIELD WORK IN COUNSELING 3

The aim of the course is to introduce the student to various aspects of guidance and counseling through experience in schools and/or agencies actually dealing with such problems. Students observe and participate in activities of the agencies to which they are assigned and write full accounts of these observations and experiences. Some time is spent in discussing and evaluating these experiences and relating them to the literature of the subject.

Prerequisite: 21 semester hours in master's degree program. Department chairperson's permission.

2 0826 655 FIELD WORK AND PRACTICUM IN SOCIAL WORK 3

Students are provided the opportunity to apply social work knowledge to a school setting under supervision of a certified school social worker. The general objective of field work is an expectation that the student will develop beginning practice skills appropriate to the setting; ability to perform cooperatively in team and interdisciplinary practice, carry cases, interview clients, participate in intervention planning, write reports, interface with relevant community resources on behalf of clients and understand the school structure, functions, practice realities, and the current legal and medical issues affecting the child study team as a helping resource. The practicum provides the connecting link between classroom instruction and practice. The instructor draws material and illustrations from the student's issues relevant to the field experience.

Prerequisite: Instructor's permission.

2 0826 656 PRACTICUM: GROUP COUNSELING 3

An advanced course for those practicing group leaders who wish to enhance their group leading skills. The students will meet and discuss their concerns and experiences. In this way they will be able to reinforce their present beliefs; have an opportunity to explore others' values and evolve alternative ways of working with groups.

Prerequisites: 2 0826 585, 2 0826 559 or 2 0826 557 and instructor's permission.

2 0826 657 SUPERVISED FIELD WORK IN COUNSELING/ SCHOOL SOCIAL WORK 3

Designed to meet the field experience needs of students seeking dual certification, this course provides students with opportunities in various aspects of guidance/counseling through experiences in schools and/or agencies actually dealing with such problems. The student is provided with the opportunity to participate in school social work in a natural school situation and to observe and participate in activities of the agencies to which they are assigned and to write detailed accounts of their observations and experiences.

Prerequisites: 21 semester hours in M.A. program. Department chairperson's approval.

2 0826 658 FIELDWORK AND PRACTICUM IN ALCOHOLISM 3
COUNSELING

This course provides students with a supervised fieldwork experience in a human service agency. Under the guidance of a certified, experienced counselor students will observe and participate in the activities of the agencies to which they are assigned and will write full accounts of these observations and experiences. Classtime will be devoted to processing these experiences with peers.

Prerequisites: 2 0826 450, 480, 590, 591.

2 0826 660 SELECTED PROBLEMS IN COUNSELING 3
HANDICAPPED PERSONS

This course presents an overview of prevailing laws, attitudes, issues and practices related to the special needs of handicapped persons. Attention is given to: 1) identification and understanding of the handicapped; 2) federal and N.J. state legislation and supportive programs; 3) life/career counseling as particularly relevant to handicapped persons of all ages; 4) issues and trends in meeting the special needs of the handicapped.

Prerequisite: 2 0826 577, instructor's permission.

2 0826 661 GROUP DEVELOPMENT LABORATORY I 3

Seminar experiences as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 2 0826 559 or equivalent course, instructor's permission.

2 0826 662 GROUP DEVELOPMENT LABORATORY II 3

Seminar experience as a core for advanced study in organization leadership. Group participation and periodic opportunities to examine problems of a group and effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 2 0826 559, 661 or instructor's permission.

2 0826 663 GROUP LABORATORY DESIGN 3

This course will focus on the translation of client needs into designs for programs of experiential and cognitive learning opportunities. Students will study models of programs which have been used for colleges, schools, businesses, and other organizations. They will then discuss the theoretical aspects involved and participate in the planning, carrying out, and evaluation of current laboratories, workshops, and conferences.

Prerequisite: 2 0826 559.

2 0826 664 INDEPENDENT STUDY 1-3

An opportunity to study in depth areas of human services which are not offered in the regular curriculum, under the direction of department faculty member. Semester hours determined by the department chair following consultation with departmental research committee. Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved course or seminar related to the student's special area of interest.

Prerequisites: 2 0824 503 Methods Of Research, chairperson's permission.

2 0826 670 TECHNIQUES OF EVALUATION 3

The course provides a background in the design, use, and interpretation of statistical evidence. Students review measures of central tendency and dispersion, then learn to evaluate error of measurement, correlation, chi square, "T" differences, and analysis of variance. Particular concern is given to statistical significance and levels of confidence. All students must give evidence of ability to comprehend report data in professional journals.

**2 0826 671 THE USE OF SELF-HELP PROCEDURES 3
IN COUNSELING**

This course provides students with the opportunity to review, in a laboratory setting, the vast array of self-help materials and procedures available to the general public. Through experiential application, students will become familiar with step-by-step procedures, appropriate application and evaluation of self-help materials in the counseling process.

Prerequisites: 2 0826 577, 588, instructor's permission.

2 0826 672 COUNSELING THE AGING 3

This course deals with the long-range preventive counseling and crisis intervention in critical stages of the aging process. Covered are such topics as: job change, economic upheaval, sexuality, changing family structure, chronic illness, death and dying.

Prerequisite: At least 1 year counseling experience or department chairperson's permission.

2 0826 673 COUNSELING FOR SEX EQUALITY 3

This course is designed to help student become more aware of the overt and more subtle aspects of sex inequality in our culture; the need for individual and group counseling strategies to overcome sex bias; and the development of counseling skills needed to implement these strategies.

2 0826 680 STUDENT PERSONNEL SERVICES TEAM 3

Establishing the philosophy, membership, roles and functions of the various services that compose the personnel services team.

2 0826 682 SEMINAR IN ADVANCED CAREER GUIDANCE 3

This seminar offers participants an in-depth exposure to such topics as latest sources and methods of utilizing career information, use of tests in career guidance, and theories of career development and their application in counseling, and developments in career education as they apply to counselors.

Prerequisite: 2 0826 582 or equivalent course, or instructor's permission.

CURRICULUM AND TEACHING

Chairperson: Dr. Catherine Becker

M.A.T. (Master of Arts in Teaching)

MAT Coordinator: Dr. Susie B. Boyce

Graduate Advisors MAT: Dr. Susie B. Boyce, Dr. Wendy Oxman

Students with a baccalaureate degree and interest in teaching may earn the Master of Arts in Teaching (MAT) and a Teaching Certificate simultaneously.

A concentration in the Teaching of Middle School Philosophy is also available within the M.A.T. program.

The regular program is open to students with undergraduate backgrounds equivalent to a teaching field in one of the following areas: fine arts, business education (bookkeeping and accounting, distributive education, general business education, secretarial studies), English, foreign languages (French, Spanish), home economics, industrial education and technology, mathematics, music, health and/or physical education, science, social sciences, speech and theatre. Additional undergraduate course work in the student's teaching field may be required to meet certification standards.

Upon successful completion of the program, the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Students interested in teaching elsewhere should seek information from the appropriate state authorities; requirements are generally similar.

Note: Certification requirements are subject to change.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission and matriculation for the master's degree, the applicant must file a separate application to the Teacher Education Program by contacting the graduate advisor in the School of Professional Studies. Admission to the College cannot be considered admission to Teacher Education.

Criteria considered for admission are:

1. Three recommendations, two of which are from College faculty or school administrators.
2. Verification of demonstrated competence in speech by the department of Speech and Theatre.
3. Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the aptitude section of the Graduate Record Examination.

tion. For those whose native language is other than English, the TOEFL Examination may be substituted.

4. Evidence of active interest in community affairs and teaching.

5. Clearance by the Student Personnel Division (For MSC BA/BS graduates only).

6. Endorsement of the Teacher Admissions Committee (Departmental and School).

Advisement

Persons interested in the program may secure information from their designated advisors. Upon acceptance, the student will be assigned an advisor who will cooperatively develop a formal program of course work with a departmental (teaching field) advisor and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for certification programs. For further information on certification, see Non-Degree Post-Baccalaureate/Post M.A. Approved Certification Programs in this catalog.

REQUIREMENTS FOR THE MASTER OF ARTS IN TEACHING (M.A.T.) DEGREE

Semester Hours

- | | | |
|--|---|-------|
| I. | Professional Sequence | 13-15 |
| A. | Prerequisites: The following courses must be taken if the students cannot fulfil the prerequisites on the basis of undergraduate credits or allowable graduate courses. | |
| | 2001 101 General Psychology I, Growth and Development | 3 |
| | (undergraduate credit only) | |
| | 2001 200 Educational Psychology | 3 |
| | (undergraduate credit only) | |
| | 0829 200 Initial Field Experience in Education* | 1 |
| | 0830 407 Development Reading: Principles and Techniques I | 3 |
| | 0830 408 Developmental Reading: Principles and Techniques II | 3 |
| | 0829 410 Intermediate Field Experience in Education or equivalent | 1-3 |
| Note: All students must satisfy the course requirement in the Human and Intercultural Relations area. The course to meet this requirement must be selected from the approved list or its equivalent in consultation with the advisor. | | |
| B. | Required Courses | 9 |
| | 0829 400 Teacher, School and Society | 3 |
| | 0821 520 Development of Educational Thought | 3 |
| | 0829 435 Effective Teaching/Productive Learning* | 2 |

*Effective for students entering after September 1, 1986.

II.	Education Sequence	12
A.	0826 559 Dynamics of Group Processes	3
	0824 503 Methods of Research	3
B.	Other education electives	6
	Graduate courses not specifically designed for preparation or certification in some other areas of education may be selected with approval of the Departmental Advisor.	
	If, in the opinion of the Dean of the School, the student has essentially achieved the objectives of part of the program, that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.	
III.	Teaching Discipline Courses	6-9
	Graduate courses in the teaching discipline which are covered by the certificate or serve other needs and interests of the students are selected with approval of the Departmental Advisor.	
IV.	Cultural Electives	3-6
	With approval of the advisor, the student selects courses to extend or broaden his general education.	
	Note: Areas III and IV must total at least 12 credits.	
V.	Field Experience (Practicum)	10
	0829 411 Supervised Student Teaching	8
	0829 402 Seminar in Professional Education	1
	0829 401 Senior (Community) Field Experience	1
	Minimum: 43 semester hours	

NOTE:

The program requires a comprehensive examination. This requirement may be completed in conjunction with a three credit course (0829 600 MAT Seminar Related Instructional Thought and Practices) designed to prepare candidates for the examination. See Graduate Advisor for information.

M.A.T. CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

Matthew Lipman, Director of the Institute for the Advancement of Philosophy for Children (IAPC), Graduate Advisor

Ann Margaret Sharp, Director of IAPC Graduate Programs, Graduate Advisor

The master's program in philosophy for children is designed for candidates who have a liberal arts degree or its equivalent. In view of the growing awareness of the importance of thinking skills to the educational process, and in view of the high regard in which the philosophy for children program has come to be held by educators on an international level, proficiency in teaching children philosophy, as attested by this degree, will strongly recommend such individuals to elementary and secondary schools seeking teachers with proficiency in improving students' cognitive skills.

Students attend four semesters of which the first and final are summer residential sessions of 9 graduate credits each held off campus in a community setting. Students take 36 credits in philosophy for children, educational psychology, and sociological theory. An additional ten credits enables the student to acquire actual classroom experience teaching philosophy to children under supervision in local public schools and to analyze their teaching experience under the guidance of the professional staff.

Since the inception of this program in 1981, candidates from 13 foreign nations have participated in addition to students from various American parts of the United States. Many of these students already held a master's degree in Philosophy before entering into this program. Among those who have successfully completed the program, some have gone on to Ph.D. programs in various universities, including the new Ph.D. Program in Philosophy for Children at Southern Illinois University; some have become Philosophy for Children coordinators in school districts; and some have become classroom teachers.

Certification

Candidates may, if they choose, opt for K-12 certification in a discipline other than philosophy (since philosophy is not a certifiable discipline in most states). Before beginning the degree program, the student who chooses this option should identify the discipline in which certification is to be requested upon consultation with the graduate advisor. It is the student's responsibility to contact the departmental certification advisor in that discipline to determine which courses the student will need to take in addition to the 46 graduate-credit Program in Philosophy for Children. There is no reason why these courses could not be taken in advance of the student's residence at Montclair State College. The student will also be responsible for designing a work program with the director of the IAPC graduate programs, which will secure the approval of the certifying officer of the College, the Dean of the School of Professional Studies.

Admission Requirements

Students should have a strong background in the liberal arts, with at least 15 undergraduate credits in traditional philosophy and 6 credits in psychology. Courses in the history of philosophy and logic are particularly desirable. Also required are an overall average of 3.00 in undergraduate work, Graduate Record Examination or Miller Analogies Test scores, and an interview. (The examination scores are waived in the case of individuals already holding a master's degree.)

Examinations

All candidates for the degree must pass the IAPC comprehensive examination given each year at the end of the summer terminal session. Application for this examination must be made in writing to the Graduate Studies Office by March 1st of the year in which the examination is to be taken. Candidates are examined in the relationship of traditional philosophy to the teaching of reasoning, inquiry and concept formation skills, and in the relationship between the history of ideas and philosophy for children.

REQUIREMENTS FOR THE M.A.T. CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

Summer (one month off-campus residential session)

		Semester Hours
4999 510	Teaching Philosophical Thinking I & II	6
4999 511	Teaching Philosophical Thinking III	3

Fall

0821 521	Contemporary Educational Thought	3
0829 400	Teacher, School and Society	3
0829 401	Senior Field Experience	1
0829 521	Seminar: Problems of a Classroom Teacher	1
4999 512	Value Thinking Skills for Children	3
0829 414	In-service Supervised Teaching I	4

Spring

0821 581	Foundations of Reflective Education	3
2208 560	Sociological Theory	3
2001 560	Advanced Educational Psychology	3
0829 415	In-service Supervised Teaching II	4

Summer (one month, off-campus residential session)

4999 614	Scientific Thinking Skills for Children	3
4999 615	Foundations of Reasoning	3
4999 513	Social Thinking Skills of Children	3

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COMPREHENSIVE EXAMINATION

M. Ed. (Master of Education) **An Interdisciplinary Degree for Classroom Teachers**

M. Ed. Administrator and Coordinator: Dr. Catherine Becker

The Master of Education degree at Montclair State College is designed to provide teachers with the knowledge, skills and competencies that will improve their performance in the classroom while broadening their awareness of professional issues and concerns. It is a program that is consciously designed for the mature student, drawing on recent research in the fields of adult learning, cognitive development and teacher effectiveness. In addition there is a clearly defined field-based component which ensures that participating students put into practice what is learned in the program. The unifying theme of the program is the development of reflective thinking in students.

Admission Requirements

Admission to the program is limited to active, certified teachers. Students must demonstrate required GRE and NTE scores and a basic undergraduate

grade point average of 3.0, although special consideration will be extended to tenured teachers who otherwise demonstrate they are capable of completing the program. Persons interested in the program may secure information from Dr. Catherine Becker, Chapin Hall Room 218.

REQUIREMENTS FOR THE M. Ed. DEGREE

	Semester Hours
PHASE I	
0829 530 Principles of Curriculum Development	3
0824 580 Learning: Process and Measurement	3
0821 521 Contemporary Educational Thought	3
0821 541 The School as a Social System	3
TOTAL PHASE I	12
TRANSITION I	
Dynamics of Group Process	2
0829 609 Transitional Seminar I	1
TOTAL TRANSITION I	3
CUMULATIVE TOTAL	15
PHASE II	
0824 503 Methods of Research	3
0829 655 Professional Development Modules	4-8
Specialization Courses	3-6
TOTAL PHASE II	10-17
CUMULATIVE TOTAL	25-32
TRANSITION II	
0829 610 Transitional Seminar II	2
CUMULATIVE TOTAL	27-34
PHASE III	
0829 534 Strategies for Curriculum Change	3
0829 670 Culminating Activity	5
Specialization Courses	2-6
TOTAL PHASE III	10-14
CUMULATIVE TOTAL	37-48

CURRICULUM AND TEACHING

Course Descriptions	Semester Hours
1 0829 510 SCHOOL VIOLENCE AND VANDALISM: PROBLEMS AND SOLUTIONS	3
The course will provide students with a sufficient knowledge base to understand school vandalism and violence, and its ramifications and offer practical methodologies and techniques that will enable them to apply this knowledge in practical situations. Course activities will provide students with the needed skills to suggest or conduct controlled experiments, for particular problems, in school districts.	

- 1 0829 523 EDUCATION IN THE INNER CITY 3**
 The urban school through the eyes of city youngsters, teachers and other educational personnel. Influences of social and economic forces: poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluation of federal and other projects, innovative teaching and local action. Student prepares a proposal for improvement of an urban school situation.
- 1 0829 530 PRINCIPLES OF CURRICULUM DEVELOPMENT 3**
 Philosophic, social and economic forces in our society that have determined and will determine the pattern of curriculum in American education in the American public schools from K-12 grades. Accepted manner of designing such curricula and professional bodies and individuals who play leading roles in the process of curriculum design. Connection of community interest and power structures in society which are related to the professional decisions.
 Prerequisite: 1½ years teaching experience.
- 1 0829 531 CURRICULUM CONSTRUCTION IN THE 3**
ELEMENTARY SCHOOL
 Reviewing and bring up to date basic curriculum development concepts; curriculum construction in a modern elementary school; creating an elementary school curriculum in a specific field for one or more grade levels.
 Prerequisite: 1 0829 530.
- 1 0829 532 MIDDLE SCHOOL CURRICULUM AND 3**
ORGANIZATION
 Emerging curriculum of the rapidly developing middle school. Organization of pupils, instruction, media and facilities. Recent social changes and educational innovations; practices in typical middle schools; developing instructional strategies.
 Prerequisite: 1 0829 530.
- 1 0829 533 CURRICULUM CONSTRUCTION IN THE 3**
SECONDARY SCHOOL
 Secondary school curriculum and the needs of a changing civilization. Effective means of curriculum construction.
 Prerequisite: 1 0829 530; majors only.
- 1 0829 534 STRATEGIES FOR CURRICULUM CHANGE 3**
 Principles and concepts from sociology, social psychology, educational administration and curriculum applied to education. Opportunity to develop change strategies for particular field settings.
 Prerequisite: One and one-half years of successful teaching experience under certification.

1 0829 535 DESIGNING CURRICULUM FOR AFFECTIVE AND HUMANISTIC EDUCATION 3

The design and implementation of curricular approaches to emotion and process phenomena in the school; evolution, theory and current practice experientially evaluated. Workshops to devise original design models, and simulative and micro-teaching sessions to demonstrate competence in their application.

Prerequisite: 1 0829 530, and Educational Psychology.

1 0829 536 CURRICULUM AND TEACHING IN CAREER EDUCATION PROGRAMS 3

Overview of the broad objectives and philosophical bases for career education programs; analyses of selected case studies of career education programs in existence; analysis and evaluation of the process of curriculum development in career education programs; evaluation of selected resources and instructional strategies used in career education programs.

1 0829 537 THE STUDY OF TEACHING AND CURRICULUM 3

The teaching process, the varieties of teaching models and metaphors, underlying philosophical considerations and the relationship between teaching and learning outcomes.

Prerequisite: Three years of teaching experience.

1 0829 538 DISCIPLINE AND GROUP MANAGEMENT IN THE CLASSROOM 3

Course designed to enable teachers to more effectively manage classroom behavioral problems. Classroom management will be examined as distinct from the requisite for effective instruction. Several unified managerial approaches will be studied. Course will culminate with opportunities to practice the selection and application of specific managerial techniques to a range of simulated classroom situations.

Prerequisite: Course in educational psychology.

1 0829 546 EDUCATION OF THE GIFTED AND TALENTED 3

Course will focus on the components necessary for planning and implementing program for gifted and talented students: definition and identification procedures, alternative organizational patterns, curriculum design, instructional strategies and materials, teacher selection and program evaluation.

Prerequisite: Educational Psychology.

1 0829 600 M.A.T. SEMINAR: RELATING INSTRUCTIONAL THOUGHT AND PRACTICES 3

Seminar course providing in-depth study of selected topics related to current classroom problems based on sound educational theory and practice. The comprehensive examination for the M.A. (major in teaching) will be based on this course.

Prerequisite: Completion of 30 semester hours in M.A.T. program.

1 0829 610 INDEPENDENT STUDY IN CURRICULUM AND TEACHING 1-3

An opportunity for practicing teachers to develop and implement curricula under the guidance of curriculum development specialists. Student should discuss proposal with a faculty sponsor in the department of Curriculum and Teaching and secure permission prior to registration. Especially appropriate for teachers involved in "T&E" planning.

Prerequisite: 1 0829 530 Principles of Curriculum Development.

1 0829 635 RESEARCH SEMINAR IN CURRICULUM CONSTRUCTION 3

Individual advanced work in curriculum construction. Admission upon approval of the instructor.

Prerequisites: 1 0829 530 and 531, or 532, or 533.

INSTITUTE FOR ADVANCEMENT OF PHILOSOPHY FOR CHILDREN

Course Descriptions

Semester Hours

9 4999 510 TEACHING PHILOSOPHICAL THINKING I AND II 6

This course aims to acquaint prospective teachers with reasoning skills that are employed in everyday conversation, reading, listening, and writing so as to prepare teachers to encourage children in the use of such skills. Course represents a range of inquiries which in traditional philosophy would be known as philosophy of language, metaphysics, aesthetics, ethics, philosophy of science, and epistemology. However, this content has been re-constructed to make it accessible to children.

9 4999 511 TEACHING PHILOSOPHICAL THINKING III 3

The aim of this course is to assist prospective teachers to operationalize reasoning skills and to utilize certain aspects of philosophy of language, aesthetics, and epistemology for the enhancement of writing skills.

Prerequisite: 9 4999 510.

9 4999 512 VALUE THINKING SKILLS 3

Prospective teachers are introduced to the techniques by which reasoning can deal with moral issues in the objective and impartial fashion known as ethical inquiry for children.

9 4999 513 SOCIAL THINKING SKILLS FOR CHILDREN 3

This course will enable prospective teachers who have already taken the foundational course in philosophy for children to teach children to apply basic reasoning skills to the social studies. The program, therefore, represents an integration of philosophy, logic and the social sciences. It is also a way of presenting the social studies as a discussion course in which the conceptual foundations of the behavioral sciences are reviewed and appraised.

Prerequisites: 9 4999 510, 511.

9 4999 614 SCIENTIFIC THINKING SKILLS FOR CHILDREN: 3
METHODS OF RESEARCH

This course helps prospective teachers understand some of the ways in which thinking skills can be applied to basic concepts in the physical sciences. It, therefore, focuses upon the intersection between philosophy of science, scientific methodology, and educational research.

9 4999 615 REASONING FOR THE DISADVANTAGED 3

Students will consider problems of cognitive functioning of disadvantaged children, especially in urban areas. Attention will be given to children with learning disabilities. Special attention will be given to problems of linguistic interaction specific to the inner city and to identification of the educational and social factors responsible for lagging cognitive performance in the schools.



EDUCATIONAL FOUNDATIONS

Chairperson: Dr. Thunder Haas

The Department of Educational Foundations has the dual responsibility of serving and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new, innovative programs. In keeping with these professional responsibilities, the department offers foundations courses for the preparation of professional public school educators, and at the same time satisfies specialized demands emanating from social, political, ethnic & cultural problems.

EDUCATIONAL FOUNDATIONS

Course Descriptions

Semester
Hours

3 0821 520 DEVELOPMENT OF EDUCATIONAL THOUGHT 3

Intensive study of philosophic assumptions from classical to modern schools of thought as they relate to educational theory and practice. Realism, idealism, and naturalism with emphasis upon significant contributions from Plato, Aristotle, Epicurus, Locke, Rousseau, Aquinas and others will be analyzed in light of current issues.

3 0821 521 CONTEMPORARY EDUCATIONAL THOUGHT 3

Critical evaluation of schools of philosophy which have contributed to educational thought in modern times; pragmatism, progressivism, existentialism, perennialism, reconstructionism, and others. Current trends and problems; principles underlying educational theory and practice.

3 0821 522 PRAGMATISM IN EDUCATION 3

An intensive study of the doctrines and principles developed in the writings of John Dewey and his followers, with special reference to critical issues in education today. Instruction into pragmatic thought through the writings of Dewey, Pierce, and James, & the implications of this philosophy studied through the works of Kilpatrick, Counts, Bode, Childs, Bramald, and others.

**3 0821 530 FOUNDATIONS OF BILINGUAL/
BICULTURAL EDUCATION 3**

Survey and introduction to bilingual schooling in the U.S. with special reference to historical backgrounds; typology and definitions; programs, practices, and staff development; overview of court decisions and legislation affecting bilingual education.

**3 0821 532 INTERPERSONAL RELATIONS BILINGUAL
CHILDREN 3**

Survey and analysis of interpersonal relations of Puerto Rican children, including examination of cultural life style, psycho-social development, family socialization process and self-identity, and economic situation, to enable the teacher of Hispanic-American students to deal effectively, constructively, and empathetically with them.

3 0821 540 SOCIAL FORCES AND EDUCATION 3

Examination of various facets of society that have impact on the educational system: economic, political, social, ethnic and religious forces as they relate to problems of educational systems. Field studies included.

3 0821 544 SOCIAL CLASS AND EDUCATION 3

Social, ethnic and racial customs as they relate to class structure and educational values. Traditions of various social groups and their effect on American education.

3 0821 545 POLITICAL FORCES AND EDUCATION 3

Influences of the political structure and the educational system on each other. Specific roles played by education and educational leaders in government bodies at various levels.

3 0821 548 CRUCIAL ISSUES IN AMERICAN EDUCATION 3

A study of the origin, development, and status of very specific crucial issues in the field of education: equal opportunity for education, racial integration, and education; federal aid to education; compensatory education and socio-economic deprivation; affirmative action and civil rights legislation.

3 0821 561 EDUCATION IN WESTERN EUROPE 3

Variations in educational thinking and practices in selected European countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the relationship between school systems and their cultural contexts.

3 0821 564 EDUCATION IN LATIN AMERICA 3

The basic Latin American social, economic and cultural structures and how they relate to secondary school and university systems.

3 0821 580 TEACHING PHILOSOPHY TO CHILDREN 9

Skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials in philosophy for children as well as the history of philosophical ideas which form an essential component of the approach. (This course will not count toward the undergraduate major in philosophy.)

3 0821 581 FOUNDATIONS OF REFLECTIVE EDUCATION 3

Attention will be given to the basic techniques of forming classroom communities of inquiry through the study of the broad historical tradition of educational philosophy from Plato to Passmore. Particular attention will be given to philosophers who have dealt with the nature of reflection, thinking skills, ethical inquiry, pedagogical methods, children's rights, dialogue, community, personhood, and the general aims of education.



EDUCATIONAL LEADERSHIP

Chairperson: Dr. Anne C. Castens

Graduate Advisors:

Educational Leadership:

Administration and

Supervision:

Reading:

Research and Evaluation:

Media and Technology in

Education:

Dr. Lawrence Bellagamba

Dr. Anne Castens

Dr. Frank Merlo,

Dr. David Weischadle

Dr. Joseph Brunner,

Dr. Maria Schantz

Dr. D. Joy Stone

Dr. Gerhard Lang

Dr. Grosvenor Rust

Educational Leadership, working with other departments of the College and the School, prepares educational leaders in the broadest sense. Programs of graduate study leading to the Master of Arts in Administration and/or Supervision, Reading, and to post-M.A. studies, are offered. In addition, the department offers courses at the graduate level in administration and supervision, education research and evaluation, media and technology in education, and reading.

The majority of the graduate programs are directed toward certification as supervisor, principal, school administrator, business administrator, reading teacher, reading specialist or media specialist. A comprehensive study of the field of Educational Leadership is encouraged, however.

Certification programs are also available to those holding a teaching certificate and M.A. degrees in a subject area and desiring certification as supervisors or administrators.

A new concentration (non-state certificate bearing) in the Master of Arts degrees in Administration and Supervision, the Educator/Trainer concentration, has been designed for training personnel in business and industry.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION

(For school personnel)

Three years of successful teaching experience under certification are required for certification as Supervisor or Administrator.

Our programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. They combine study with

close observation and practice in various communities and agencies. The graduate programs in the department prepare students for positions as:

1. Major administrative or supervisory personnel at all levels of educational systems.
2. Educational managers and planners in the media fields. (e.g. media specialist)
3. Reading specialists or consultants.
4. Educational researchers, evaluators and testing specialists.

Our effort to select candidates carefully and lead them to be able to:

1. Develop a personal philosophy of education and social ethic consistent with related theories of learning and human development.
2. Develop characteristics required for effective leadership in education.
3. Analyze educational organizations, and plan programs and strategies for increasing organizational effectiveness.
4. Develop techniques to facilitate interpersonal and group problem-solving and decision making.
5. Develop skills in managing change and conflict in educational endeavors.
6. Interpret research findings and design and implement research techniques to their organizational needs.

ADMISSION REQUIREMENTS

In addition to the admission requirements for graduate study at Montclair State College, students wishing to matriculate into the Master of Arts program in Administration and Supervision in the Department of Educational Leadership must first complete requirements listed in Phase I of the program or be enrolled in the last course in Phase I.

Admission to Phase I (pre-matriculation) requires:

1. A valid teaching certificate issued by a State Department of Education.
2. One and one-half years of successful teaching experience under contract or other employment judged as suitable educational experience by the department.

Students who wish to move from Phase I (pre-matriculation phase) to full matriculation in the program must apply to the Department of Educational Leadership.

The process leading to full matriculation includes:

1. A departmental interview.
2. A matriculation examination scheduled at the time of the matriculation interview.
3. An updated statement of personal goals written at the time of the matriculation interview.

Other requirements for full matriculation include:

1. Successful completion of Phase I requirements (or completing last course).
2. Two years of successful teaching experience under contract.

3. Recommendations from three educational leaders familiar with the professional work of the candidate. One recommendation must be from an instructor in Phase I.
4. Competency in written and spoken English as determined by the matriculation interview and the updated statement of goals.
5. Personal characteristics of leadership.

A student must apply for pre-matriculation before completing six semester hours of course work in Phase I of the Administration and Supervision program in order to determine the student's eligibility for the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

PROGRAM REQUIREMENTS

	Semester Hours
I. Phase I Requirements	12
0824 503 Methods of Research	3
A graduate course offered in learning theory and application	3
0827 510 Educational Administration I	3
0842 564 Dynamics of Group Process or the successful completion of a course in group dynamics at the graduate level of any accredited college, or by participation in a Human Relations Laboratory of at least one week's duration con- ducted by an accredited institution	3
II. Phase II Requirements	9
0829 530 Principles of Curriculum Development	3
0827 540 Supervision I (Principles)	3
0827 520 Systems Analysis	3
III. Phase III Requirements	12-21
0827 615 Field Experience in Administration and Supervision	3
Electives to be selected after consultation with the advisor, and listed in the Master of Arts work program. They may be selected to satisfy certi- fication requirements. Certain courses outside the School may be selected. A concentration in Media or Educational Research and Evaluation is possi- ble with Supervisor's Program.	
IV. Comprehensive Examination	

Minimum: 33-36 semester hours

ADVANCED GRADUATE STUDY IN ADMINISTRATION AND SUPERVISION

Students holding a Master of Arts degree and New Jersey certificate for Principal, who wish to continue planned graduate study of thirty additional semester hours, will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision, and make a satisfactory grade on a comprehensive examination covering the field. Such a program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for the School Administrator's Certificate (Superintendent of Schools) in New Jersey.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION – CONCENTRATION FOR EDUCATOR/TRAINER

(Training Personnel)
(nonstate certificate bearing)

This program provides solid scholastic foundations with close observation of the applications and implementation of theoretical principles. Graduates will serve as supervisors of trainers in corporate management, basic skill training in industry, civil service training, library/museums, health services, banks, research project management, and human resource management. Graduates of this program will learn to:

1. Develop a personal philosophy of organizational training consistent with the related theories of adult learning and human development.
2. Develop effective leadership skills in educational training programs.
3. Analyze organizations and plan programs and strategies for increased effectiveness.
4. Develop techniques for interpersonal and group problem solving and decision-making.
5. Develop skills in managing change and conflict.
6. Interpret research findings and design and implement research techniques to their organizational needs.

A student must apply for pre-matriculation before completing six semester hours in the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on the requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

ADMISSION REQUIREMENTS

1. A bachelor's degree from an accredited institution of higher education.
2. Satisfactory performance on Graduate Record Examination.
3. Competency in oral and written English.
4. A minimum of one and one-half years of work experience (business or teaching).
5. Personal leadership characteristics as evidenced in a departmental interview.
6. Satisfactory completion of Phase I course work.
7. Recommendation from three individuals familiar with candidate's capabilities (one from instructor in Phase I).

Students are considered "pre-matriculated" until completing the first twelve credits in the program. To move from Phase I (the pre-matriculation phase) to full matriculation in the program, they must apply to the Department of Educational Leadership after or while completing the twelve credits.

The process leading to full matriculation includes:

1. A departmental interview.
2. An updated statement of personal goals written at the time of the matriculation interview.
3. Validation of 1½ years work experience.

PROGRAM REQUIREMENTS

	Semester Hours
I. Phase I Requirements	12
0824 503 Methods of Research	3
0826 564 Dynamics of Group Process	3
0827 509 Administration of Education and Training Programs	3
2001 549 Psychology of the Adult Learner	3
II. Phase II Requirements	15
0827 531 Program Planning and Development	3
0827 542 Supervisory Skills for Education and Training Personnel	3
9 elective credits (approved by adviser, in area of specialization)	9
III. Phase III Requirements	9
0827 628 Field Experience or Internship	3 or 6
2 electives in major field approved by adviser	6
	36

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN READING

ADMISSION REQUIREMENTS

Provision is made in this program to matriculate students who have demonstrated interest and ability suitable to reading education. Applicants shall

furnish acceptable evidence of talent appropriate for competence in reading instruction. Letters of recommendation from the school system superintendent or the school building principal will be acceptable. Final matriculation is the departmental decision; prerequisites will be determined by departmental advisement.

PROGRAM REQUIREMENTS

	Semester Hours
I. Basic Professional Education	6
0824 503 Methods of Research (required)	3
Elective in School of Professional Studies	3
II. Required Courses in Reading	12
0830 500 The Nature of Reading	3
0830 511 Case Studies of Reading Difficulties	3
0830 513 Corrective and Remedial Reading I	3
(written permission required)	
0830 505 Research Seminar in Reading	3
(written permission required)	
III. Elective Courses in Reading	6
Students must take additional reading electives in order to meet specialization requirements.	
0830 501 Techniques of Reading Improvement in Secondary Schools	3
0830 502 Administration and Supervision of Reading Programs	3
0830 503 Literature for Adolescents	3
0830 504 Reading Needs of Adult Learners	3
0830 506 Reading Resources	3
0830 509 Teaching of Communication Skills	3
(Open to M.A.T. and certification students only)	
0830 510 Field Experience in Reading	3
0830 512 Seminar in Reading Difficulties	3
0830 514 Corrective and Remedial Reading II	3
(written permission required)	
IV. Free Electives	6
Any graduate courses offered by the College.	
V. Additional Department Requirements	
A. Supervised clinical experience within the framework of required courses and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Reading Center.	
B. A written comprehensive examination, supplemented if necessary by an oral examination, or an equivalent comprehensive experience determined by the department.	
C. A reading portfolio containing representative work and personal contributions in reading will be compiled by the student. This	

portfolio will be used to diagnose students' strengths and weaknesses as they progress through the program.

Minimum: 33 semester hours

In March 1976, the New Jersey Board of Education passed a proposal for a six-semester hour or two-course requirement in the teaching of reading as it pertains to the field for which certification is being sought. This requirement became effective in September 1977. Courses are available through the Reading Program.

Students seeking Teacher Certification, therefore, must complete the following reading courses prior to filing for certification:

0830 407	Reading I: Theory and Process	3
0830 408	Reading II: The Content Areas	3

PROGRAM LEADING TO THE READING SPECIALIST CERTIFICATE

Minimum Requirements: Initial teaching certificate, two years of teaching experience and a program of 30 hours of study. See advisors for further information.

MEDIA AND TECHNOLOGY IN EDUCATION

The instructional media courses offered below are available as a sequence of study to meet the educational media specialist certification requirements. Persons wishing to prepare for one of the two certificates should arrange for a conference with the proper advisor.

A master's degree and either a standard New Jersey Teacher's Certificate or an Associate Educational Media Certificate are required as prerequisites to the issuing of the Educational Media Specialist Certificate. A bachelor's degree and a standard New Jersey Teacher's Certificate are required as prerequisites to the issuing of the Associate Educational Media Specialist Certificate. Course descriptions for the related undergraduate program leading to this last certificate are provided in the undergraduate catalog.

The following senior graduate level courses are open to graduate students pursuing certification under the 1974 media certification act. Approval of graduate advisor is required for inclusion in a program of study.

4 0840 401	Fundamentals of Cataloging and Classification	3
4 0840 402	Reference and Bibliography for School Resource Centers	3
4 0840 403	Reading Materials for Children and Youth: Selection and Evaluation	4
4 0840 420	Teaching Materials Workshop	3
4 0840 430	Television Services in a Single School Media Program	3
4 0840 445	Audio Technology in Education	3

EDUCATIONAL LEADERSHIP

Course Descriptions

	Semester Hours
4 0824 503 METHODS OF RESEARCH	3
Theory and methods of historical, descriptive, and experimental research; formulation of a research problem; use of bibliographical sources and reference materials; statistics and measurement in research; types and instruments of research; data collection and analysis. Writing the research report, and career opportunities in research.	
4 0824 578 TESTING AND EVALUATION	3
Principles and practices of educational and psychological testing and evaluation relevant to professionals in human services, communication sciences and disorders, education, and related fields. Historical/philosophical orientation; place of testing in instructional and remedial programs; statistical concepts underlying measurement; validity, reliability, response set; construction of tests and measurement instruments; evaluation and interpretation of testing data; use and misuse of testing data; reporting data to students, parents and colleagues; critical analyses of selected standardized intelligence, ability and personality tests; experimental tests and measurement instruments. Course project geared to individual student needs.	
4 0824 579 ASSESSMENT FOR EDUCATOR/TRAINERS IN NON-SCHOOL EDUCATIONAL SETTINGS	3
Principles and practices of assessing behavior, skills, knowledge and attitudes of trainees in non-school educational and training programs. Various individual and group, formal and informal evaluative instruments and techniques will be reviewed. Course content and requirements will be geared to individual needs of students.	
4 0824 580 LEARNING: PROCESS AND MEASUREMENT	3
Study of the learning process and its measurement as it applies in the classroom and non-school settings.	
4 0824 585 DEVELOPMENT OF STUDENT TEST-TAKING SKILLS	3
This course is designed to help teachers understand the underlying motivational, situational, and cognitive aspects of test taking skill in order to help students to maximize their test performance. Basic measurement concepts will be reviewed, and test item construction abilities developed.	
4 0824 650 INDEPENDENT STUDY IN EDUCATIONAL RESEARCH AND EVALUATION	3
Designed for individuals who, in consultation with advisor, wish to undertake an in-depth analysis of a specific research problem. Prerequisite: Advisor's permission.	

4 0827 509 ADMINISTRATION OF EDUCATION AND TRAINING PROGRAMS 3

This course prepares the present or prospective administrator to manage an education or training program in a non-school setting. Administrative theory, organizational functions, personnel and staff requirements as well as program design and development will be examined and studied. The course is designed for the educational administrator in both public and non-public agencies as well as in profit-making or nonprofit organizations.

Prerequisite: One and one-half years of work experience.

4 0827 510 EDUCATIONAL ADMINISTRATION I 3

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories considered in the educational setting. Impact of environmental and personal forces on organizational behavior.

Prerequisite: One and one-half years of successful teaching under certification.

4 0827 512 ADMINISTRATION OF ELEMENTARY SCHOOLS 3

Educational leadership required for effective elementary school organization & administration. Changing role of the principal, relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

Prerequisite: Educational Administration 4 0827 510.

4 0827 513 SECONDARY SCHOOL ADMINISTRATION 3

Special administration problems of the junior and senior high school. Recruitment of staff; scheduling of teachers, organization and school morale, and recent experiments of organizational structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to help design education as a continuous process. Students write a paper on a special administrative problem.

Prerequisite: 4 0827 510.

4 0827 520 SYSTEMS ANALYSIS IN EDUCATION AND TRAINING 3

Latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curriculum or administrative mode. Simulation techniques in classroom-oriented activities.

Prerequisite: 4 0827 510 and 1 0829 530.

4 0827 521 EDUCATION LAW 3

Legal-theory, practical politics, relationship of school district organization to other units of government, appellate function of the state Commissioner of Education and the state Board of Education, New Jersey school laws (Title 18A of the revised statutes) and rules and regulation of the state board of education and their decisions. New Jersey school legal structure compared with that of other states.

4 0827 522 USE OF COMPUTERS IN EDUCATIONAL ADMINISTRATION 3

This introductory course provides for the school administrator an overview of the computer, its development and applications in education, and the nature of the computer operational requirements in an educational organization. Also included will be the elements of an educational management information system (EMIS), computer staff supervision, and use of computers in such areas as testing, record keeping, attendance and report preparation. Prerequisite: 4 0827 510.

4 0827 523 SCHOOL PLANT PLANNING 3

The relationship between educational facilities and educational programs. Site selection, development of educational specifications, the physical environment, selection of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities.

Prerequisite: 4 0827 510.

4 0827 524 EDUCATION LAW II 3

This course is principally designed for the experienced public school teacher, administrator and board of education member. Such topics as school district and employee liability, negligence, and the constitutional and statutory rights of the school employee and student are fully explored. Pertinent administrative law and court decisions are reviewed using the case study method.

Prerequisite: 4 0827 521.

4 0827 526 SCHOOL BUSINESS ADMINISTRATION 3

Role of school business administration in the public school. Various functions, structures and techniques of operation. Simulation techniques utilized to construct both a traditional and PPBS budget.

Prerequisite: 4 0827 510.

4 0827 528 FINANCIAL MANAGEMENT FOR EDUCATION AND TRAINING PERSONNEL 3

This course provides an introduction to budgets systems, financial management, general accounting procedures, and the process of reporting for training personnel. Also included will be discussions of the development of financial reports related to training, as well as experience in the use of cost-benefit analysis techniques. Financial terminology will be included in the overall course development.

4 0827 531 PROGRAM PLANNING AND DEVELOPMENT 3

This course provides education and training personnel with experience in the principles and techniques of designing training programs in the organizational setting. Special attention will be placed on organizational needs analysis and program development in skills areas and staff development. Students will design a total program and individual lessons for education and training efforts in a variety of simulated settings.

Prerequisite: One and one-half years of work experience.

4 0827 540 SUPERVISION I**3**

School personnel as principals, coordinators and department and subject area supervisors in elementary and secondary schools. Contribution of supervisors in instruction and in supporting the professional work of classroom teachers.

Prerequisites: Two years of teaching experience and 4 0827 510.

4 0827 541 SUPERVISION II**3**

Applies theories of supervision to practical situations in particular grade levels and/or in special subject fields. Sharp focus on improving the teaching skills of colleagues. Critical analysis and improvement of local teacher evaluation procedures. Consideration of the impact of contemporary educational issues on school improvement and in-service education. Preparation of professional documents. Course modified in terms of student's needs.

Prerequisites: 4 0827 540 and 4 0827 510.

**4 0827 542 SUPERVISORY SKILLS FOR EDUCATION AND
TRAINING PERSONNEL****3**

This course provides the present and prospective education and training supervisor in a public or non-public, profit or non-profit setting with instruction in course/program assessment, personnel selection procedures, staff evaluation processes, and material/equipment procurement. Also included is training manual development and use.

Prerequisite: 4 0827 509.

4 0827 543 THE CLINICAL SUPERVISOR**3**

Role of the supervisor in implementing clinical supervisory practices. Simulation techniques utilized to develop observation and conference techniques as well as the development of professional improvement plans.

Prerequisites: 4 0827 510, 4 0827 540.

**4 0827 545 LEADERSHIP SKILLS IN COMMUNICATION FOR
THE EDUCATOR/TRAINER****3**

This course provides experience in basic leadership skills for the educator/trainer: communication skills, report writing skills, listening skills, and presentation skills, students will prepare actual reports, presentations, and reactions, verbal and/or written, to problem situations. Audio and video taping of individual skills presentation of simulated situations will be an important component of the course. Increasing training and supervisory effectiveness through the improvement of communication skills will be the major focus of this course.

**4 0827 615 SUPERVISED FIELD EXPERIENCE IN
ADMINISTRATION AND SUPERVISION**

3

Students are assigned work within an educational agency, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the administrator. A written report on the activity or research paper will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

Prerequisite: Permission of a graduate advisor. Graduate program matriculation required.

4 0827 616 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 6

Full semester assignment of guided work within an educational institution's administrative office. Sixth year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for position, scheduling, inservice professional development, special committee leadership, projects that influence curriculum building arrangements and budgets. The sixth year student may be required to take 1 0827 610 or 611 for three additional semester hours during this internship. In all cases, students will complete the research project as part of the internship assignment.

Prerequisite: Open only to matriculated students. Graduate advisor's permission.

**4 0827 618 INDEPENDENT STUDY IN EDUCATIONAL
ADMINISTRATION AND SUPERVISION.**

1-3

Individual pursuit of a research topic in the area of administration or supervision, culminating in a written document of scholarly proportion and integrity. Arrangements for this course should be made with department chairperson or advisor.

Prerequisites: Open only to advanced matriculated students in programs, with permission of department chairperson.

4 0827 622 SCHOOL FINANCE

3

Current economic environment; state, local and federal taxation; state school aid theory and practice; school district indebtedness; statutory school budget and fiscal controls; various cost-quality instruments and role of school fiscal structure in relation to local, state and federal governments.

Prerequisite: 4 0827 510 and 521.

4 0827 625 SCHOOL PLANT MAINTENANCE AND OPERATION 3

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

Prerequisite: 4 0827 510.

4 0827 628 FIELD EXPERIENCE ADMINISTRATION AND SUPERVISION FOR EDUCATORS/TRAINERS 3 or 6

Students are assigned to a particular office, under guidance of a supervisor, to carry out certain functions of the position. A college staff member acts as coordinator and supervisor by visiting site and consulting with student, observing him in action; plans with site supervisor for improvement and evaluation of student's work.

4 0827 629 ACCOUNTING, AUDITING, AND REPORTING FOR SCHOOL SYSTEMS 3

The course will provide students with the knowledge and skills required to initiate and maintain a school district's accounting, auditing, and reporting program. Emphasis is placed on the terminology and processes required to insure local school district financial accountability. New Jersey operational requirements will be stressed.

Prerequisites: 4 0827 521, 526.

4 0827 643 STAFF PERSONNEL ADMINISTRATION AND SUPERVISION 3

Personnel practices and problems in current school situations. Roles of policy-making bodies, the public, professionals, para-professionals and general staff in recruitment, selection, retention and evaluation of staff.

Prerequisites: 4 0827 510, 540.

4 0827 644 COLLECTIVE BARGAINING, IMPASSE AND GRIEVANCE RESOLUTION 3

Analysis of New Jersey public relations law (chapter 123, New Jersey public laws of 1974). Simulations and case studies to illustrate negotiations, grievance, and impasse procedures.

Prerequisites: 4 0827 510 and 540, instructor's permission.

4 0827 670 SELECTED TOPICS IN EDUCATIONAL ADMINISTRATION/SUPERVISION 1-3

Emphasis on in-service education for practicing administrators and or supervisors. Topics will vary in accordance with needs, concerns, or requests of school districts or professional organizations desiring service. Current problems are given priority. Credits to be dependent upon number of hours workshops and/or seminars are in session.

Prerequisite: For practicing administrator or supervisors only.

4 0830 500 THE NATURE OF READING 3

The foundations of reading: the nature of the reading process, readiness, beginning instruction, current practices in the teaching of reading in early childhood and elementary education, a reappraisal of the role of reading in a technological society.

4 0830 501 TECHNIQUES OF READING IMPROVEMENT IN THE SECONDARY SCHOOL 3

The improvement of non-clinical reading difficulties in the content subjects. For the subject area teacher and the beginning reading specialist. Secondary school reading needs and specific suggestions for guiding the slow, average, and gifted student in a classroom situation.

4 0830 502 ADMINISTRATION AND SUPERVISION OF READING PROGRAMS 3

The more complex aspects of organizing and administering reading programs: theory and techniques of leadership, program development, organization of in-service programs, developing a budget, methods of evaluation, etc. Essential background for reading specialists to establish or administer a functional school reading program.

4 0830 503 LITERATURE FOR ADOLESCENTS 3

Background for the development of recreational reading programs in junior and senior high schools. Literature written for students, as well as literature intended to be read widely by adolescents, criteria for book selection, censorship, role of mass media, minority group identification through books, bibliotherapy, bibliographic tools, and the importance of the librarian.

4 0830 504 THE READING NEEDS OF ADULT LEARNERS 3

For teachers of out-of-school youth and adults. Language learning and related psychological factors; methodology and reading instruction; literature and the reading program and innovations in reading instruction.

4 0830 505 RESEARCH SEMINAR IN READING 3

Problems in the field of reading suggested by the educational events and trends, the members of the class, and by educational movements in New Jersey, the country, and the world. Each student will execute an individual research effort.

Prerequisite: Written permission of advisor.

4 0830 506 READING RESOURCES 3

Software, hardware, multi-media and multi-sensory materials available in schools and in adjunct facilities; philosophic, psychological and academic considerations of reading resources. Video tape demonstrations of materials.

4 0830 507 UNDERSTANDING READING COMPREHENSION 3

This course provides for educators and others an understanding of the processes underlying the processing of visible language, particularly the types commonly found in written texts used in educational settings. The instructor will explore with the participants the affective, cognitive, linguistic, pragmatic, and textual variables pertaining to the formulation of meaning in reading. The eventual outcome of the course will be the creation of a conceptual framework for the comprehensibility of written materials couched in terms of the interaction among the reader, the text, and other pragmatic variables.

Prerequisites: 4 0830 500, 501.

4 0830 510 FIELD EXPERIENCE IN READING 3

Agencies and programs dealing with reading. Students observe, participate, and report activities of the agencies. For students in long-range research with limited teaching experience, who need additional field and clinical experience. Independent study.

Prerequisite: Permission of reading advisor.

4 0830 511 CASE STUDIES OF READING DIFFICULTIES 3

This is a basic course in learning the techniques for diagnosing reading difficulties; for diagnosing the most frequently used tests and inventories; the actual testing of a child with reading problems. Group and individual tests, survey and diagnostic tests, and standardized and informal tests; reporting to parents, schools and agencies. The course is geared to develop skills in diagnosing reading problems for individuals which will be used by the clinician for treating remedial and corrective students. Additional diagnostic hours arranged.

Prerequisite: 4 0830 500 and instructor's permission.

4 0830 512 SEMINAR IN READING DISABILITIES 3

Significant problems in the field of reading disability; historical and emerging models used in reading diagnosis.

4 0830 513 CORRECTIVE AND REMEDIAL READING 3
PART I CAUSATION

For advanced students and specialists involved in some aspect of remedial instruction. Part I investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written permission of the instructor required.

4 0830 514 CORRECTIVE AND REMEDIAL READING 3
PART II TREATMENT

For advanced students and specialists involved in some aspect of remedial instruction. Part I investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written permission of the instructor required.

4 0840 500 MEDIA, TECHNOLOGY, AND LEARNING 3
IN THE CURRICULUM

The organizing and integrating of media in school curricula and other educational programs. Identifying instructional purposes and defining roles for technology and media in learning and teaching. Examining and comparing curriculum designs for their concordance with the procedures of technology in education. Selection and evaluation of materials.

4 0840 520 PRODUCTION OF MATERIALS FOR MEDIA 3
TECHNOLOGY

For developing advanced proficiency in preparing audio, photographic, and graphic materials. Especially for persons charged with materials preparation in media centers. Laboratory instruction.

4 0840 521 DESIGN OF INNOVATIVE CURRICULUM RESOURCES 3

Emphasis systems design, software, program development, creative development of media for special learning situations, basic design of programmed instruction and multi-media techniques.

Prerequisite: 4 0840 520.

4 0840 525 PHOTOGRAPHIC COMMUNICATION IN EDUCATION 3

Offered for the development of competency with the photographic processes and equipment commonly used in producing educational media. Extensive laboratory and camera work required. Emphasis is on proficient creativity for instructional utilization.

Prerequisites: Approval of instructor as to background in photography and ownership of adequate equipment.

4 0840 540 TELEVISION PRODUCTION IN EDUCATION 3

Combination lecture, laboratory and seminar experiences in television, elements of television set design, functions of floor director, control room operations and basic television directing.

4 0840 541 TELEVISION PROGRAMMING IN EDUCATION: INDEPENDENT STUDY 3

Combination lecture, laboratory and seminar in programming, conceptual creativity, pre-planning, execution of ideas and evaluation of presentations. Selection and design of hardware.

Prerequisite: 4 0840 540 or equivalent course, instructor's permission.

4 0840 550 ADMINISTRATION AND SUPERVISION OF MEDIA IN EDUCATION 3

Provides training for management of integrated instructional resources programs. Emphasis is on the practical day-to-day problems of control, production, acquisition, utilization, finance, staffing, organization and evaluation for the provision of media and technology in educational enterprises. Additional attention is given to community relationships and special services.

4 0840 570 DEVELOPING MATERIALS FOR COMPUTER TECHNOLOGY IN TRAINING AND EDUCATION 3

Design, organization, and presentation of subject matter in computer based instruction. Emphasizes user-friendly modes. Includes media insertion, storyboarding, flow design, pseudocoding, and pedagogical control. Investigates authoring systems and languages. Does not include programming training.

4 0840 610 RESEARCH AND DEVELOPMENT SEMINAR IN INSTRUCTIONAL TECHNOLOGY AND RESOURCES 3

A seminar on application of research findings to the design and utilization of instructional media and resources. Emphasis is on the extraction of practical utilization based upon research findings.

Students are assigned work within an educational media center, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the media specialist. A written report on the activity will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

ENGLISH AND COMPARATIVE LITERATURE

Chairperson: Dr. Rita Jacobs

Graduate Advisor: Dr. Lee Khanna

In the master's program in literature, the student will study individual authors and their works intensively, while developing a broader understanding of literary periods, themes, and types. Students are expected to demonstrate the ability to participate in sophisticated scholarly discourse, both orally and in writing. Within the total 33 semester hours of course work, one of four concentrations may be chosen: British literature to 1745; British literature 1745 to the present; American literature; and comparative literature. In addition, courses are offered in such special topics as the film, and the teaching of composition, literature and basic writing.

The program serves as continuing training for in-service teachers and as preparation for doctoral-level work, as well as intellectual enrichment for students who wish to develop a deeper understanding of literature for its own sake. A significant number of M.A. graduates have, in recent years, gone on to the doctoral programs at major universities. Others have found the program to be both useful and enhancing to careers in business and government.

ADMISSION REQUIREMENTS

Candidates for matriculation in the Master of Arts program of this department must show a B average or better in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examinations. Most applicants will have majored in literature (English, comparative, or

foreign) at the undergraduate level. However, students with strong academic credentials may apply even if they do not have the recommended background in literature. The graduate advisor will interview each candidate for the program regarding his or her scholastic record and intellectual or professional goals.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENGLISH AND COMPARATIVE LITERATURE

Semester Hours

- I. Distribution of course work
 - A. British and American literature
 1. Seminar in Literary Research (to be taken near the beginning of the program) 3
 2. Thesis Writing (to be taken at the end of the program) 3
 3. A concentration in one of three major areas as follows: 9
 - a. British literature to 1745
 - b. British literature from 1745 to the present
 - c. American literature
 4. To be distributed among the remaining two major areas and the area of comparative literature 9
 5. Electives 9

Minimum: 33 semester hours

- B. Comparative Literature. In cooperation with other divisions in the School of Humanities and Social Sciences, the department offers students who have superior command of a foreign language (usually French or Spanish) the opportunity to concentrate in comparative literature.

Courses are focused on the interrelationships among literatures. Significant authors, ideas, movements, and literary types in different ages and cultures are selected for comparison. (N.B.: Comparative literature courses, prefixed 1503, are open to all students, regardless of their concentration. Lectures and readings are in English.)

1. Seminar in Literary Research (to be taken near the beginning of the program) 3
2. Thesis Writing (to be taken at the end of the program) 3
3. A concentration in comparative literature 9
4. French or Spanish literature 9
5. To be distributed among the three major areas of British and American literature 9

Minimum: 33 semester hours

II. Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign lan-

guage, either by passing a written examination or by earning a grade of B in the French Reading Course (1102 100), before taking the comprehensive examination or registering for Thesis Writing. Examinations will normally be given in French, German, Russian, Italian, or Spanish. Other languages may be offered with the approval of the department. Students concentrating in comparative literature will receive approval of the language of their primary area of study.

The foreign language examination is given on the last Saturdays of February and September. The French Reading Course is offered whenever there is a sufficient number of interested students, usually every other year. Students who wish to take the course should notify the graduate advisor.

III. Comprehensive Examination

All candidates for the master's degree must pass a comprehensive examination. Students concentrating in British or American literature take a three-hour written test; those concentrating in comparative literature take a two-hour oral test. Both are designed to test critical ability and familiarity with major works of British, American and foreign literature. Students must complete one-half of their course work and satisfy the foreign language requirement before taking the comprehensive examination, and must pass the examination before registering for Thesis Writing.

The comprehensive examination is based on a reading list compiled by the student and approved by a committee of the graduate faculty. The student selects at least fifteen major works from those studied in his or her graduate program (in the case of short pieces, a representative group by one author will be considered as one "work"). The list must include at least three of the four major areas of literary study (see Distribution of Course Work, above). In the semester before taking the examination, students should consult with the graduate advisor about the preparation of the reading list. The list must be submitted by the second week of the semester in which the examination will be taken, although earlier submission will increase the student's preparation time, and is strongly encouraged.

The comprehensive examination is given on the last Saturdays of March and October.

ENGLISH AND COMPARATIVE LITERATURE

Course Descriptions

BRITISH LITERATURE TO 1745

Semester Hours

M 1501 500 OLD ENGLISH LITERATURE

3

Specimens of Old English prose and poetry are read in the original language and studied for an appreciation of their literary art. No previous study of Old English is required. The first half of the course is spent on grammar and pronunciation, using prose from the chronicles and other works as examples. Oral recitation is required of all students. Poetry is studied in the second half of the course. Topics include the oral-formulaic tradition, the verse types, and the mixture of Christian and pagan themes characteristic of the literature.

M 1501 505 CHAUCER

3

An intensive study of the Canterbury Tales and other works against their literary and social backgrounds, with special attention to Chaucer's language and to the tools of Chaucerian scholarship. No previous study of Middle English is required.

M 1501 508 SHAKESPEARE STUDIES: TRAGEDIES

3

Shakespeare's tragic drama against a background of classical and medieval theories of tragedy, and in relation to the practice of his contemporaries. Consideration is given to Shakespeare's use of plot sources and to Elizabethan theories of rhetoric.

M 1501 509 SHAKESPEARE STUDIES: COMEDIES

3

Shakespeare's comic art in the light of comic theory and practice from Aristotle to the present. Areas of analysis include Shakespeare's use of Roman and native English comedy, his language, characters, and sources, and the traditions of Shakespearean criticism.

M 1501 510 SHAKESPEARE STUDIES: HISTORIES

3

A study of the ten English history plays. Shakespeare's use of historical sources and variations from historical fact are examined carefully. Attention is given to scholarship, criticism, and production of the history plays.

M 1501 511 ELIZABETHAN AND JACOBAN DRAMA

3

A comprehensive view of the period of the apex of English drama, from 1550 to the closing of the theaters in 1642. Major works by Elizabethan and Jacobean dramatists other than Shakespeare are studied in the light of medieval English drama and the new renaissance theories of Shakespeare's contemporaries. Attention is given to changes in subject matter, tone, dramaturgy, and staging during the latter part of the period.

M 1501 512 RENAISSANCE LITERATURE I: PROSE

3

Major prose writers of the sixteenth century, including Erasmus, More, Castiglione, Sidney, Lyly, Nashe, and Hooker. Attention is given to the development of satire, romance, the picaresque, and utopian fiction.

M 1501 513 RENAISSANCE LITERATURE II: POETRY 3

A study of English poetry of the sixteenth century, a period of major changes. The principal focus is on poets who contributed to the development of the English lyric (Wyatt, Surrey, Raleigh, Sidney, Shakespeare). The unique poetry of Edmund Spenser, particularly *The Faerie Queene*, is also examined.

M 1501 515 SEVENTEENTH CENTURY LITERATURE: POETRY 3

The poetry of Donne, Jonson, Herbert, Marvell, and Milton, supplemented by historical and intellectual background and by selections from the work of Vaughan, Traherne, Crashaw, Herrick, Suckling, Lovelace, Carew, and Cowley. Stylistic categories such as the metaphysical, the classical, and the meditative are considered in the light of a close critical analysis of the major poetry.

M 1501 516 SEVENTEENTH CENTURY LITERATURE: PROSE 3

English prose between the Elizabethan period and the age of Queen Anne, including the development of prose style and the origins of the short narrative, or scientific writing, and of modern literary criticism. Authors include Milton, Pepys, Bunyan, Walton, Burton, Bacon, Brown, and Aubrey.

M 1501 518 MILTON 3

Paradise Lost, *Paradise Regained*, *Samson Agonistes*, and some of the minor works are analyzed intensively. Styles, themes and techniques are considered in the light of Milton's life and the political and religious controversies of his times. The poetry is also studied in terms of its relation to Milton's Italian and classical models, his Elizabethan masters, and his contemporaries.

M 1501 520 RESTORATION AND EIGHTEENTH-CENTURY DRAMA 3

Heroic, comic, and sentimental drama by playwrights from Dryden to Sheridan with emphasis on their reflection of the literary and social climate. Attention is also given to the physical theater and to the composition of the audience during the Restoration and 18th century.

M 1501 521 THE AUGUSTAN AGE 3

The literature of the Restoration and early eighteenth century in its cultural contexts. Topics include criticism and aesthetics, satire, the new nature poetry, and the relationship between literary forms and philosophical and critical ideas. Emphasis on the works of Dryden, Swift, Pope, Gay, Addison and Steele, and Thomson.

M 1501 597 INDEPENDENT STUDY IN BRITISH LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

BRITISH LITERATURE 1745 – PRESENT

M 1501 525 THE ENGLISH NOVEL FROM DEFOE TO AUSTEN 3

The rise of the English novel and its various traditions: comic, realistic, satirical, psychological, and Gothic. Authors include Defoe, Richardson, Fielding, Smollett, Sterne and Austen.

M 1501 529 BRITISH ROMANTICISM I: WORDSWORTH AND COLERIDGE 3

The poetry of the two most important writers of the first generation of the Romantic movement in England. Emphasis is placed on the significance of their poetry in terms of the poets' own personal experience and in the context of the age of democratic and industrial revolution.

M 1501 530 BRITISH ROMANTICISM II: BYRON, SHELLEY, AND KEATS 3

The major works of the second-generation Romantics are studied in relation to the experience of their lives and the movements of their time. Attention is also given to their letters and critical writings.

M 1501 531 VICTORIAN STUDIES I: PROSE 3

The responses of the major prose writers of the period to such issues as the rise of a large working class, the sudden growth of cities, demands for political freedom and the promises and threats of science. The problems of establishing an aesthetic of nonfiction prose are also considered. Works by Carlyle, Mill, Arnold, Macaulay, Huxley, Newman, Pater, and Wilde.

M 1501 532 VICTORIAN STUDIES II: NOVEL 3

The Victorian novel in its historical and cultural contexts, with emphasis on the responses of the most vital art form of the age to the unprecedented changes in English life that took place during the era. Works by Thackeray, Trollope, Dickens, the Brontës, Eliot, and others.

M 1501 533 VICTORIAN STUDIES III: POETRY 3

The course concentrates on the major mid-Victorian poets, Tennyson, Browning, and Arnold, and to a lesser extent on their successors among the pre-Raphaelites, the aesthetes, and the rhymers.

M 1501 535 HARDY, JOYCE, AND LAWRENCE 3

An examination of the fiction of these three writers with special attention to the ways in which their work illuminates the transition to modern fiction, demonstrates the relation between literary consciousness and society, and illustrates the cultural phenomenon of the artist repudiated by society.

M 1501 540 THE MODERN BRITISH NOVEL 3

Innovations in characterization, narrative technique, and theme under the impact of major twentieth-century political, economic, and cultural developments. Works by Forster, Huxley, Waugh, Orwell, Greene, Amis, Murdoch, Lessing, and others.

M 1501 542 THE IRISH RENAISSANCE 3

The Irish contribution to twentieth-century literature and aesthetic theory, specifically to that brand of experimentation, individualism, and internationalism associated with the idea of the modern. Special attention to W.B. Yeats, James Joyce, J.M. Synge, Sean O'Casey, and Frank O'Connor.

M 1501 597 INDEPENDENT STUDY IN BRITISH LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

AMERICAN LITERATURE

M 1501 550 STUDIES IN EARLY AMERICAN LITERATURE 3

All major and several minor American writers of the seventeenth and eighteenth centuries are studied within several contexts: literary, religious, philosophical, and political. Topics include the development of American literature 1620-1800; the effects of puritanism and deism; the concept of the American Dream; the originality of the founding fathers; and the extent to which modern American literature and culture reflect the colonial heritage.

M 1501 552 AMERICAN POETRY TO 1912 3

The continuity of American poetry as a national body of literature, with distinctively American themes, subjects, techniques, and critical theories; the shaping influences of English and Continental writers; and the impact of American poets on their European contemporaries. Particular emphasis on Poe, Whitman, Emerson, Melville, Dickinson, Crane, and Robinson.

M 1501 555 AMERICAN ROMANTICISM 3

An exploration of the Romantic movement in America with particular emphasis on transcendentalism. Works by Emerson, Thoreau, Whitman, Irving, Cooper, and Bryant.

M 1501 556 POE, HAWTHORNE, AND MELVILLE 3

An intensive examination of the writings of the three "Dark Romantics" of the American Renaissance, set against their biographical backgrounds and the literary and historical contexts in which they worked.

M 1501 557 AMERICAN REALISM 3

The development of American realistic fiction, with emphasis on the works of Twain, Howells, and James in relation to their literary heritage and to their social milieu.

M 1501 560 MODERN AMERICAN FICTION 3

After a brief examination of late nineteenth-century realism, the major writers of the twentieth century (up to World War II) are studied with special attention to the critical attitudes of the period and to related scholarship. Authors include Dreiser, Stephen Crane, Sherwood Anderson, Hemingway and Faulkner.

M 1501 561 MODERN AMERICAN POETRY 3

Beginning with background material on late nineteenth-century poetry, the course examines selected major modern poets. The changing scene in modern poetry is noted, and the reading of contemporary poets is included. Works by Hart Crane, Hilda Doolittle, T.S. Eliot, Robert Lowell, Ezra Pound, Wallace Stevens, and others.

M 1501 563 RECENT AMERICAN FICTION 3

Fiction of approximately the last thirty years in the context of American culture and the traditions of American Fiction. The course analyzes the characteristics of theme, technique, and sensibility that form the basis of a writer's response to the ambiguities of life in the contemporary world. Works by Bellow, Mailer, Roth, Oates, Updike, Didion, O'Connor, Walker, Godwin, Brautigan, Ellison, Baldwin, and others.

M 1501 564 AMERICAN DRAMA 3

The major American playwrights, such as Eugene O'Neill, Thornton Wilder, Arthur Miller, and Tennessee Williams, are placed in the perspective of their contemporaries and of traditions of the American stage.

M 1501 598 INDEPENDENT STUDY IN AMERICAN LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

COMPARATIVE LITERATURE

M 1503 512 LITERARY CRITICISM TO 1800 3

Plato, Aristotle, Horace, Longinus, and their imitators and interpreters in the medieval, renaissance, and neoclassical periods are studied for those ideas about the nature and value of literature which have been influential in our culture. Considerable attention is given to relating the critical works to the history, art, and principal writings of each period.

M 1503 513 LITERARY CRITICISM FROM 1800 TO THE PRESENT 3

The break from classical theory (notably by the Romantics) and the search, principally in our own day, for new definitions of the nature and function of literature. Throughout the course, critical theory is related to the history, art, and principal writings of each period.

M 1503 517 ANCIENT EPIC 3

The Iliad, Odyssey, and Aeneid in English translation. Topics include ancient and modern literary criticism of Homer and Virgil; oral versus literary epic; history, folk-lore, and saga in the ancient epic; basic epic themes (the nature of heroism, fate, people and Gods, etc.); Homeric and Virgilian influence on subsequent literature.

M 1503 535 THE ENLIGHTENMENT IN EUROPE 3

A comparative study of literature and ideas in eighteenth-century Europe, focusing on English, French, and German literature, with some attention to Italian and Spanish. Major literary and philosophical trends are analyzed, including the rational and satirical attack on traditional values and the current of "sensibility" which stressed the powers of the emotions and the senses. Works by Swift, Voltaire, Fielding, Diderot, Johnson, Rousseau, Prevost, Goethe, Lessing, and others.

M 1503 536 THE ROMANTIC MOVEMENT 3

Comparative approach to the study of Romanticism in England, Germany, and France.

M 1503 565 IBSEN, STRINDBERG, AND SHAW 3

Intensive study of three great modern playwrights with an emphasis on dramatic theory and criticism, social context, and literary/theatrical values.

M 1503 570 THE MODERN NOVEL 3

Selected works by European, English, and Latin American masters, illustrating the evolution of the novel during the twentieth century. Works by James, Proust, Kafka, Dos Passos, Woolf, Gide, Mann, Hesse, Stein, Beckett, and others.

M 1503 571 TRENDS IN THE CONTEMPORARY NOVEL 3

A study of eight to twelve novels written since 1950 in English, French, German, Spanish, and Italian. The selections will be distributed evenly among the languages. Emphasis will be upon literary trends common to the contemporary novel regardless of the language in which it is written. Representative authors include Fowles, Ellison, Cortazar, Garcia Márquez, Goytisolo, Sollers, Duras, Böll, Frisch, and Moravia.

M 1503 575 MYTH: ORIGINS AND DEVELOPMENT 3

Selected world mythologies, both occidental and oriental, are studied comparatively against a background of theories concerning their origins, development, symbols, and motifs, as well as their significance to literary and interdisciplinary studies. The first part of a two-part course, but may be taken as complete in itself.

M 1503 577 FILM STUDIES 3

On a rotating basis, different cultural, historical, and aesthetic aspects of American, British, or world film will be examined. See current announcement. Students may repeat Film Studies so long as the topic is different each time.

M 1503 599 INDEPENDENT STUDY IN COMPARATIVE LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor required before registration.

ENGLISH EDUCATION

M 1501 581 TEACHING WRITING 3

In a workshop format, secondary school and college teachers of writing explore current theory and practice in the teaching of writing. Participants develop instructional materials based on sound theory.

M 1501 582 TEACHING BASIC WRITING 3

The basic writer has severe difficulties with the language, conventions, and mechanics of academic writing and is therefore usually placed in "remedial" courses in high school and college. This course explores the social, educational and linguistic causes of these students' problems, and helps secondary school and college teachers to develop a coherent approach to basic writing instruction. In the course of the semester, the teachers also create and share practical teaching techniques.

M 1501 583 TEACHING LITERATURE 3

Current or future teachers of literature become familiar with the process of literary reading; study relevant theory, practice, and research on the teaching of literature, and develop a consistent teaching approach based on a sound understanding of the literature experience.

SEMINARS

M 1501 600 SEMINAR IN BRITISH LITERATURE 3

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the British seminar so long as the topic is different each time.

M 1501 601 SEMINAR IN AMERICAN LITERATURE 3

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the American seminar so long as the topic is different each time.

M 1503 602 SEMINAR IN COMPARATIVE LITERATURE 3

Advanced study of an author, genre, movement, theme or critical theory. See current announcement for specific topic. Students may repeat the comparative seminar so long as the topic is different each time.

M 4903 603 SEMINAR IN COMPUTERS IN THE HUMANITIES 3

Types of literary research suitable for analysis by computer techniques including linguistic chronology, linguistic geography, authenticity and attribution, stylistic analysis and computer-assisted instruction. Elementary programming and a computer research project. Permission of instructor required.

WRITING SEMINAR

M 1507 590 GRADUATE WRITING SEMINAR 3

Developing writing skills in one or more of the following: essay, business report, technical report, scholarly research, autobiography, fiction, drama, poetry.

Prerequisites: Submission of writing samples and instructor's permission.

REQUIRED COURSES

M 1501 605 SEMINAR IN LITERARY RESEARCH 3

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism, and the basics of editing. Recommended for the first or second semester of graduate study.

M 1501 606 THESIS WRITING 3

Working closely with a research advisor, the student conducts a scholarly investigation and completes an acceptable master's thesis.

M 1503 605 SEMINAR IN LITERARY RESEARCH: 3
COMPARATIVE FOCUS

An introduction to the principal methods of scholarly and critical inquiry practiced in the discipline of comparative literature.

Prerequisite: Comparative literature majors only. Instructor's permission required.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Program Director: Dr. David K. Robertson

Graduate Advisor: Dr. W. Augustus Rentsch

The Master of Arts degree in Environmental Studies offers concentrations in Environmental Education, Environmental Health, Environmental Management, and Environmental Science. Each of the concentrations is designed for professional careers. Environmental Education serves the needs of teachers; Environmental Health serves the need of health professionals; Environmental Management serves government and business leaders; and Environmental Science serves industry. The program is administered by the Department of Environmental, Urban and Geographic Studies. The facilities of the New Jersey School of Conservation, operated by the College at Stokes State Forest, are available as an additional resource for the study of the natural environment.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation of the College will be followed in respect to this program. Students with weak undergraduate preparation for environmental studies will be required to complete prerequisite courses at the undergraduate level and/or appropriate graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENVIRONMENTAL STUDIES

(minimum 32-33 semester hours)

CONCENTRATION IN ENVIRONMENTAL EDUCATION

		Semester Hours
I.	Required Courses	21
	0824 503 Methods of Research (must be taken within first two semesters	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	0401 570 Ecology, OR	3
	0843 505 Society and Natural Environment	3
	4951 550 Environmental Education	3
	0843 500 Curriculum Development in Environmental Education	3
	(a field practicum)	3
II.	Required Research Option	6
	Option A	
	4951 697 Thesis	6
	Option B	
	0829 534 Strategies for Curriculum Change	3
	4951 695 Research Project in Environmental Studies	3
III.	Required Electives	6
	0401 430 Field Ornithology	3
	0401 431 Entomology	3
	0401 521 Field Studies of Flowering Plants	3
	0401 523 Mycology	3
	0821 540 Social Forces and Education	3
	0829 534 Strategies for Curriculum Change	3
	0837 532 Air Pollution	3
	0842 431 Individual and Group Dynamics	3
	0843 495 Workshop Utilizing Natural Environments	1
	0843 496 Field Studies in Social Studies and Natural Science	1
	0843 497 Field Studies in Social Studies and Outdoor Recreation	1
	0843 501 Outdoor Teaching Sites for Environmental Education	3
	0843 502 American Heritage Skills	3
	0843 503 Humanities and the Environment	3
	0843 504 Field Techniques for Teaching the Humanities	3
	0843 554 Practicum in Environmental Education	3
	2202 534 Anthropology and Education	3
	0990 497 Historical Restoration	1-9
	2206 509 Water Resource Management	3
	4951 409 Legal Aspects of Environmental Law	3
	4951 531 Independent Study in Environmental Studies	1-4

4951 551	Conservation Education	3
2208 565	Sociology of Youth	3
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL HEALTH

I.	Required courses	18
	0401 570 Ecology	3
	0837 502 Determinants of Environmental Health	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	0837 603 Research Project in Health	3
II.	Required electives	12
	A minimum of 6 semester hours from elective areas A and B each	
	A. Health Services Area	
	0836 501 Selected Developments in Safety	3
	0837 500 Health Aspects of Family Living	3
	0837 516 Selected Developments in Community Health	3
	0837 528 Evaluation in Health	3
	0837 530 Seminar in Basic Issues in Health	3
	0837 531 Independent Study in Health	3
	0837 535 History and Foundations of Health I	3
	0837 536 History and Foundations of Health II	3
	B. Life Sciences Area	
	0837 531 Independent Study in Health	3
	0837 532 Air Pollution	3
	0401 515 Radiation Biology	4
	0401 531 Medical Parasitology	3
	0401 540 Comparative Human Anatomy	4
	0401 543 Comparative Immunology	3
	0401 553 Microbial Ecology	4
	1220 539 Environmental Noise	3
	2206 509 Water Resource Management	3
III.	Electives	3
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL MANAGEMENT

I.	Required Courses	15
	0401 570 Ecology	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	2206 521 Research Methods and Techniques	3
	4951 610 Seminar: Environmental Management	3
II.	Required Electives	12
	A minimum of 6 semester hours from elective areas A and B each	
	A. Scientific Data and Concepts Area	
	0837 502 Determinants of Environmental Health	3
	1220 539 Environmental Noise	3

1905	411	Water Analysis and Purification	3
1914	525	Environmental Geoscience	3
1914	558	Coastal Geomorphology	3
2001	556	Environmental Psychology	3
2202	411	Archeological Field Methods	3
4951	531	Independent Study in Environmental Studies	1-4
B. Policy-making, Analysis and Management Area			
2001	553	Urban Psychology	3
2204	501	Economic Analysis	3
2204	508	Economics of Public Management	3
2204	510	Urban Economics	3
2206	501	Air Resource Management	3
2206	505	Human Environment	3
2206	509	Water Resource Management	3
2206	510	Urban Systems and Planning	3
2206	511	Urban and Regional Planning	3
2206	550	Urban Studies and Policy Analysis	3
2206	551	The Metropolitan Economy	3
2207	501	Public Administration and Public Policy	3
2208	564	Social Planning	3
4951	409	Legal Aspects of Environmental Law	3
4951	531	Independent Study in Environmental Studies	1-4
4951	537	Natural Resource Management	3
III.	Electives		6
IV.	Comprehensive Examination		

CONCENTRATION IN ENVIRONMENTAL SCIENCE

I.	Required courses		15
	0401	570 Ecology	3
	0837	502 Determinants of Environmental Health	3
	1914	525 Environmental Geoscience	3
	1914	575 Geochemistry	3
	1914	628 Seminar: Environmental Graphics	3
II.	Required Electives		12
A minimum of 6 semester hours from elective areas A and B each			
A. Bio-ecology Area			
	0401	430 Field Ornithology	3
	0401	467 Marine Biology of the Fishes	4
	0401	521 Field Studies of Flowering Plants	4
	0401	522 Plant Pathology	3
	0401	531 Medical Parasitology	3
	0401	532 Insect Ecology and Behavior	3
	0401	543 Comparative Immunology	3
	0401	550 Topics in Microbiology	4
	0401	553 Microbial Ecology	4
	0401	571 Physiological Plant Ecology	4
	0401	572 Ecology of the Estuary	4

0401	573	Benthic Ecology	4
0499	505	Bacteriological Techniques in Marine Sampling	2
1999	565	Tidal Marsh Ecology	4
B. Physical Environment Area			
0837	532	Air Pollution	3
1220	539	Environmental Noise	3
1905	411	Water Analysis and Purification	3
1905	570	Advanced Biochemistry	3
1914	530	Paleoecology	3
1914	537	Biostratigraphy of New Jersey	3
1914	558	Coastal Geomorphology	4
1914	560	Advanced Marine Geology	3
1914	571	Geophysics	3
1914	573	Nuclear Geophysics	3
2206	509	Water Resources	3

III. Comprehensive Examination

Note:

1. Electives for all these concentrations may be added by the college. The advisor should be contacted before any are selected by the student.
2. It is the student's responsibility to file for the comprehensive examination with the departmental advisor. At that time, information will be given concerning the nature and scope of the examination.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

**Semester
Hours**

Course Descriptions

N 2206 501 AIR RESOURCE MANAGEMENT 3

Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.

N 2206 503 CULTURE REGIONS 3

Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space as well as the diffusion process.

N 2206 504 PRO-SEMINAR 3

Research on selected problems which will vary according to instructor.

N 2206 505 HUMAN ENVIRONMENT 3

Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.

N 2206 509 WATER RESOURCE MANAGEMENT 3

The spatial patterns of the water resource both as surface water and ground-water. Processes affecting availability and techniques of estimation are stressed.

Prerequisite: N 4951 501.

N 2206 510 URBAN SYSTEMS ANALYSIS 3

The complexity of the city and its modification by means of planning the systems approach to urban study the ecological base, different models of urban systems, the impact of technological change, the hierarchy of urban regions; planning in the existing systems and creating new ones.

N 2206 511 URBAN AND REGIONAL PLANNING 3

Urban and regional planning analyzes planning goals at an integral level. Urban and regional planning are rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

N 2206 512 TRANSPORTATION ANALYSIS AND PLANNING 3

Transportation analysis addresses such diverse subject matter as technological change in the transportation media, transportation and energy, degree of accessibility, passenger trip generation by kind, commodity flows, transportation and spatial order, and transportation planning as part of urban and regional planning.

N 2206 521 RESEARCH METHODS 3

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research, both cultural and physical; mapping techniques; the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective the interaction of different social, cultural economic, political and planning forces examined for their impact upon the resulting system.

N 2206 603 READING SEMINAR IN GEOGRAPHY AND URBAN STUDIES 3

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3

The seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

N 4951 501 ENVIRONMENTAL STUDIES PHYSICAL 3

A systems concept utilizing physical science. Provides some understanding of the abiotic environment to life. The atmosphere, hydrosphere, and lithosphere are examined as natural, man-modified, and human environments.

**N 4951 502 ENVIRONMENTAL STUDIES-SOCIAL/
BEHAVIORAL 3**

A system concept utilizing social and behavioral sciences. Provides some understanding of the relationships of the cultural environment to life. The social and behavioral conditions upon the grouping of individuals are examined in natural and man-modified environments.

N 4951 508 ENVIRONMENTAL PROBLEM SOLVING 3

The purpose of this course is to train students to define environmental problems, develop their skills in solving these problems, as well as commitment to work toward their solution. Each lesson consists of student preparation of reading selected articles, classroom orientation, field trips, and the student-instructor followup. Field trip topics include pedestrian/vehicle conflict, school site development, plants as a city resource, urban/rural recreation, sign ordinances, transportation and similar topics.

**N 4951 509 ENVIRONMENTAL CHANGE AND
COMMUNICATION 3**

Prepare students as professional environmentalists: communication and journalism strategies, theory of persuasion, and roles as catalyst, solution giver, process helpers, and resource person.

**N 4951 531 INDEPENDENT STUDY IN ENVIRONMENTAL
STUDIES 1-4**

Student must develop statement of goals and phasing for completion, prior to consultation with instructor.

**N 4951 539 ENVIRONMENTAL NOISE HAZARDS AND
CONTROLS 3**

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 4951 550 ENVIRONMENTAL EDUCATION 3

Foundations of environmental education-historical, theoretical, and conceptual. Includes models, gaming encounters, and teaching strategies.

N 4951 551 NATURAL RESOURCE MANAGEMENT 3

Provide background in natural resource management; wildlife, fisheries, forests, water and related components of spaceship earth. Includes field trips.

N 4951 610 SEMINAR IN ENVIRONMENTAL MANAGEMENT 3

This is a methods seminar focusing on the techniques of managing a project with environmental significance. Students will design and plan in detail a project to improve an existing environmental problem or to implement an economically important project that would minimize environmental problems.

Prerequisites: N 4951 501, 502 or instructor's permission.

N 4951 628 SEMINAR IN ENVIRONMENTAL GRAPHICS 3

Use of geographic materials suitable for analysis, understanding and presenting aspects of the environment through seminar presentation.

Prerequisite: At least 12 semester hours of graduate credit in environmental science, or with instructor's permission.

N 4951 695 RESEARCH PROJECT IN ENVIRONMENTAL STUDIES 3

To complete the research proposal initiated in the research methods course.

Prerequisites: N 2206 521 or N 4951 503 or 4 0824 503, instructor's permission.

N 4951 697 THESIS 6

Preparation and defense of a thesis in environmental studies.

Prerequisite: Approval of the department chairman, the graduate advisor, and the faculty thesis advisor.

FINE ARTS

Chairperson: Dr. Wendy Oxman-Michelli

Graduate Advisor: Prof. Patricia Lay

The graduate program in Fine Arts allows for a concentration in Studio, Art Education, or the Visual Arts. Areas of specialization in Studio are: painting, sculpture, graphic design, photography, cinematography, drawing, ceramics, printmaking, fiber arts and jewelry.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program.

Eligibility for matriculation requires either an undergraduate degree in fine arts or the equivalent as determined by the art department. A strong background in both art history and studio work is expected. A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning all requirements, including art history requirements, dates for portfolio reviews, and suggested portfolio contents may be obtained from the department's graduate advisor.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FINE ARTS

	Semester Hours
I. Required courses for all Fine Arts MA candidates.	
Graduate Art History	6
Graduate Project or Thesis	6
<i>Either</i>	
A. Graduate Project	
1001 695 Seminar in Art I:	3
Contemporary Art and Aesthetics	
1001 696 Seminar in Art II:	3
Contemporary Art and Aesthetics	
<i>Or</i>	
B. Master's Thesis	
1001 697 Master's Thesis I	3
1001 698 Master's Thesis II	3
II. Art Electives	15
To be selected with approval of the Graduate Advisor.	
III. Free Electives	6
IV. Final Oral Examination in relation to Graduate Project or Master's Thesis.	
In addition to the successful completion of all required course work all candidates are required to make a final presentation of either a body of visual work from their area of concentration, and a related project paper, or a Master's Thesis. Advice concerning this requirement may be obtained from the department's graduate advisor.	
Minimum	33

FINE ARTS

Course Descriptions

	Semester Hours
G 0831 501 CONTEMPORARY VIEWPOINTS IN ART EDUCATION	3
A study of art literature which influences art educators in their teaching. Readings will be in papers and books selected from philosophy, sociology, psychology and aesthetics which deal primarily with various classifications within the discipline. The practical implementation with the educational setting, will be analytically discussed.	
G 0831 502 ADVANCED CURRICULUM CONSTRUCTION IN ART EDUCATION	3
For students with interest in curriculum construction or revision, both in the elementary and secondary programs. Evaluation of curricular materials in use in New Jersey and throughout the country in terms of principles of curriculum construction.	

G 0831 505 SUPERVISION AND EVALUATION IN ART EDUCATION 3

Supervisory methods and techniques for the experienced art teacher. Current and analogous supervisory data will be included. Will be based on state criteria and ways of evaluating from creative viewpoints.

G 1001 515, 516 GRADUATE LIFE DRAWING I, II 3 each
Advanced problems in drawing based upon a study of the human figure. Taken serially.

G 1001 600 MASTER'S THESIS I 3
A serious research project in art for the student finishing his course work.

G 0831 601, 602 GRADUATE LIFE DRAWING III, IV 3 each
Continuation of G 1001 516. Taken serially.

G 1001 610, 611 INDEPENDENT STUDY I, II 1.0-8.0 each
Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his/her prior work in the chosen media. Credits to be arranged. May be repeated for credit.
Prerequisite: Permission of the department.

G 1001 695, 696 SEMINAR IN ART I, II: CONTEMPORARY ART AND AESTHETICS (with graduate project) 3 each
Seminar I and II are graduate seminars in Contemporary Art and Aesthetics. An appropriate amount of written work will be assigned, accompanied by discussion of the written work and required readings. In addition, extensive visits to area museums and galleries will be required. It is suggested that Seminar I be taken prior to 18 semester hours and Seminar II during the semester in which the student intends to graduate. Taken serially.

G 1001 697 MASTER'S THESIS I 3
Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.
Prerequisite: Written permission of the graduate advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors throughout the thesis.

G 1001 698 MASTER'S THESIS II 3
Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.
Prerequisite: Written permission of the graduate advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors, throughout the thesis.

G 1002 511, 512 GRADUATE PAINTING I, II 3 each

Studio in painting to further the creative expression and technical knowledge of the student in various painting media personal and professional development through studio work, trips and the study of the contemporary artists. Taken serially.

Prerequisite: Permission of the department

G 1002 515 GRADUATE VISUAL ARTS WORKSHOP 1

Selected studio topics which represent current concerns within the contemporary world of the visual arts.

G 1002 521, 522 GRADUATE SCULPTURE I, II 3 each

The student explores independently one or two materials and techniques, and begins to find directions as a sculptor. Taken serially.

G 1002 560, 561 GRAPHIC DESIGN I, II 3 each

Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer. Taken serially.

Prerequisite: Permission of the department.

G 1002 605, 606 GRADUATE PAINTING III, IV 3 each

Continuation of G 1002 512. Taken serially.

G 1002 607, 608 GRADUATE PAINTING V, VI 3 each

Advanced study in painting; individual projects in various media. Readings in contemporary art, visits to museums and galleries. Taken serially.

Prerequisites: Permission of the department.

G 1002 613, 614 GRADUATE SCULPTURE III, IV 3 each

Continuation of G 1002 522. Taken serially.

G 1003 590 MODERN PHILOSOPHIES OF ART I 3

Major writers in art in the nineteenth and twentieth centuries. The nature of the creative experience; art in the life of the individual and of society; the creative process; new materials; institutions and sentiments affecting current thinking in the field. Discussions based on readings of philosophers, poets, social scientists and psychologists.

G 1003 591 MODERN PHILOSOPHIES OF ART II 3

The writings of 19th and 20th century artists and their interpreters; such works as the "Futurist's Manifesto" and Kandinsky's "The Spiritual in Art."

G 1003 592, 593 SELECTED PROBLEMS ART HISTORY I, II 3 each

Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the special areas of the professor or guest professor invited for the semester. Taken serially.

Prerequisite: Permission of the department.

G 1010 505 FILM AS A VISUAL ART 3

An understanding of the development of the motion picture as an art form. Viewing, analysis, reading, and/or actual participation in the production of film images.

Prerequisite: Permission of the department.

G 1010 580, 581, 615, 616 GRADUATE CINEMATOGRAPHY 3 each
I, II, III, IV

Techniques, materials and theories of motion picture production for visually experienced students. Taken serially.

G 1011 570 GRADUATE INTRODUCTORY PHOTOGRAPHY: 3
A CONTEMPORARY ART FORM

Provides for the in-depth study and practice of photography as a visual language. Encourages exploration beyond the camera through studio work, discussions, criticism, films, trips and demonstrations.

Prerequisites: 10 semester hours in art. Permission of the department.

G 1011 571 GRADUATE INTERMEDIATE PHOTOGRAPHY: 3
A CONTEMPORARY ART FORM

Workshop, discussion, lectures, criticism, demonstrations: photography for self expression and greater visual awareness. Creative controls craftsmanship, perception, presentation and the fine points will be investigated.

Prerequisite: G 1011 570.

G 1011 609 GRADUATE ADVANCED PHOTOGRAPHY: 4
A CONTEMPORARY ART FORM

Workshop, discussion, lecture, demonstrations, criticism. Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, zinc system and view camera will be investigated.

Prerequisite: G 1011 571.

G 1090 525, 526 GRADUATE METALWORK 3 each
AND JEWELRY I, II

Designing jewelry and small sculpture in varied metals; the techniques of flat sheet metal and casting.

Prerequisites: Graduate prerequisites and permission of department.

G 1090 531, 532 GRADUATE CERAMICS: POTTERY AND 3 each
SCULPTURE I, II

Experimentation with the potter's wheel; handbuilding methods of forming; further experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor.

G 1090 541, 542 FORM IN FIBER I, II (GRADUATE) 3 each

Designing with simple and four harness floor looms, in a variety of techniques and materials. Taken serially.

Prerequisites: 10 semester hours in art. Permission of the department.

G 1090 543, 544 GRADUATE DECORATION 3 each
OF FABRICS I, II

Survey course in all aspects of fabric embellishment; tie-dye, batik, blockprint, tritik discharge, silkscreen printing, 3 M Matrix. etc. Taken serially.

Prerequisites: Permission of the department.

- G 1090 618 GRADUATE METALWORK AND JEWELRY III 3**
Continuation of G 1090 526. Taken serially.
Prerequisites: Permission of the department.
- G 1090 619 GRADUATE METALWORK AND JEWELRY IV 3**
Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting. Continuation of G 1090 618. Taken serially.
Prerequisites: Permission of the department.
- G 1090 622, 623 GRADUATE CERAMICS POTTERY AND 3 each**
SCULPTURE III, IV
Continuation of G 1090 532. Taken serially.
Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor.
- G 1090 624, 625 FORM IN FIBER III, IV. (GRADUATE) 3 each**
Continuation of G 1090 542. Taken serially.
Prerequisites: Permission of the department.
- G 1090 626, 627 FORM IN FIBER V, VI 3 each**
Continued experimentation with on-loom and off-loom weaving techniques synthetic and vegetable dyes. Taken serially.
Prerequisites: Permission of the department.
- G 1090 630, 631 GRADUATE DECORATION OF FABRIC 3 each**
III, IV
Continuation of G 1090 544. Taken serially.
Prerequisites: Permission of the department.
- G 1095 506 STUDIO TECHNIQUES IN ART THERAPY 3**
The development of a repertoire of art therapy skills in various media to facilitate meeting the expressive needs in art therapy settings. May be repeated for credit.
Prerequisite: Instructor's permission.
- G 4921 552, 553, 628, 629 GRADUATE PRINTMAKING 3 each**
I, II, III, IV
Advanced work in various print processes, emphasis on the development of images and concepts as they relate to the printmaking media. Taken serially.

FRENCH

Chairperson: Professor Madeleine Sergent
Graduate Advisor: Dr. Kay Wilkins

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools, and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

ADMISSION REQUIREMENTS

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard College requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester before registration. Courses will be offered on a rotating basis to allow diversity of offerings. Please consult department chairperson for details.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FRENCH

	Semester Hours
I. Required Courses	6
1102 505 History of the French Language	3
or	
1102 509 Advanced Stylistics	3
1102 603 Research Seminar	3
(Waived if student elects to write a thesis)	
One course in the literature of <i>each</i> century to be selected from the following French electives:	
II. French Electives	
1102 506 Advanced French Phonetics	3
1102 508 Explication de Texte and Stylistic Analysis	3
1102 511 Medieval French Literature	3
1102 513 Medieval French Theater	3
1102 516 French Humanism in the Sixteenth Century	3
1102 517 Poetry of the Renaissance	3
1102 525 Moralists of the Seventeenth Century	3
1102 526 Corneille, Racine and Moliere	3
1102 527 Selected Topics in Seventeenth Century French Literature	3
1102 530 Philosophy and Politics in Eighteenth Century France	3
1120 531 The Development of the Novel in Eighteenth Century France	3

1102 532	Eighteenth Century Seminar	3
1102 538	French Novel of the Nineteenth Century I	3
1102 539	French Novel of the Nineteenth Century II	3
1102 540	Nineteenth Century French Poetry	3
1102 542	Twentieth Century French Theater	3
1102 543	Twentieth Century French Poets	3
1102 544	Twentieth Century French Novel I	3
1102 545	Twentieth Century French Novel II	3
1102 546	Twentieth Century Seminar	3
1102 547	Francophone Literature	3
1102 548	Contemporary French Civilization: Selected topics	3
III.	Free Electives	6
IV.	Thesis (Optional)	4
V.	Comprehensive Examination: Two sessions	

All candidates for the master's degree must pass a comprehensive examination designed to test critical ability and familiarity with major works of French literature. Before registering for the comprehensive examination students must have completed all their course work (with the exception of the 603 Research Seminar) and have satisfied the requirement of having taken 1 course on the literature of each century.

The examination is based on a reading list and course content.

Minimum: 33 semester hours

FRENCH

Course Descriptions

Semester Hours

O 1102 505 HISTORY OF THE FRENCH LANGUAGE 3
Structures of modern French as outcome of linguistic and cultural processes over 2,000 years.

O 1102 506 ADVANCED FRENCH PHONETICS 3
Principles of general and experimental phonetics. Previous knowledge of phonetics desirable.

O 1102 507 PRACTICUM IN TRANSLATION 3
Basic principles and theory of translation with emphasis on research techniques.
Prerequisite: Adequate competency in the language for the purpose of translation training.

O 1102 508 EXPLICATION DE TEXTE AND STYLISTIC ANALYSIS 3
Techniques of "explication de texte and stylistic analysis" as an instrument for development of critical reading ability, and as pedagogical tool for teaching literature as well as language through literature.

O 1102 509 ADVANCED STYLISTICS 3
Fundamental notions of structuralism as applied to contemporary literary criticism.

- O 1102 511 MEDIEVAL FRENCH LITERATURE 3**
 French literature from ninth through fifteenth centuries emphasizing the "Chanson De Geste" and the "Roman Courtois."
- O 1102 513 MEDIEVAL FRENCH THEATRE 3**
 Origins and development of theatre in France during the middle ages.
- O 1102 516 FRENCH HUMANISM IN 16TH CENTURY 3**
 Humanistic ideals as reflected in the works of Rabelais, Montaigne and other authors.
- O 1102 517 POETRY OF THE RENAISSANCE 3**
 Major works of Marot, Ronsard, Du Bellay, and other poets of the Pleiade.
- O 1102 525 MORALISTS OF THE 17TH CENTURY 3**
 Representative works of Descartes, Pascal, La Rochefoucauld, Saint Simon, La Bruyere, and other authors.
- O 1102 526 CORNEILLE, RACINE AND MOLIERE 3**
 Dramatic art as reflected in representative plays of the three authors.
- O 1102 527 SELECTED TOPICS IN 17TH CENTURY FRENCH LITERATURE 3**
 Changing topics to include in-depth studies of individual authors.
- O 1102 530 PHILOSOPHY AND POLITICS IN 18TH CENTURY FRANCE 3**
 Impact of the "Philosophes" on religious, political and sociological thought.
- O 1102 531 THE DEVELOPMENT OF THE NOVEL IN 18TH CENTURY FRANCE 3**
 Study of the social and historical context of a novel and its particular form (e.g. epistolary, episodic, etc.)
- O 1102 532 18TH CENTURY SEMINAR 3**
 Changing topics to include in-depth studies of individual authors and genre topics.
- O 1102 536 THE ROMANTIC MOVEMENT 3**
 The origins and development of Romanticism in England and Germany are compared with the later triumph of the movement in France. Representative works of Chateaubriand, Goethe, Novalis, Kleist, Hoffmann, Heine, Musset, and Nerval are studied, and their themes compared with those of the English Romantics. (Taught in English. Recommended to French majors as a free elective.)
- O 1102 538 FRENCH NOVEL OF 19TH CENTURY I 3**
 Insight into major works of Balzac and Stendhal.
- O 1102 539 FRENCH NOVEL OF THE 19TH CENTURY II 3**
 Insight into major works of Flaubert and Zola.
- O 1102 540 19TH CENTURY FRENCH POETRY 3**
 Development of French poetry from Romanticism to Symbolism.

- O 1102 542 20TH CENTURY FRENCH THEATRE** 3
Major modern currents and trends in drama.
- O 1102 543 20TH CENTURY FRENCH POETS** 3
Within a general developmental context, emphasis upon thematics and structural analysis of work of Apollinaire, Reverdy, Char, Eluard and Bonnefoy.
- O 1102 544 20TH CENTURY FRENCH NOVEL I** 3
Evolution of the French novel from Proust to the "New Novel".
- O 1102 545 20TH CENTURY FRENCH NOVEL II** 3
From the "New Novel" of the 50's to contemporary French writing.
- O 1102 546 20TH CENTURY SEMINAR** 3
Changing topics on twentieth century French literature.
- O 1102 547 FRANCOPHONE LITERATURE** 3
Major Francophone writings outside continental France.
- O 1102 548 CONTEMPORARY FRENCH CIVILIZATION-
SELECTED TOPICS** 3
Study of institutions and culture of contemporary France.
- O 1102 603 RESEARCH SEMINAR** 3
Opportunity to apply research techniques on a specific topic of the student's choice.

GEOSCIENCE

Chairperson: Professor Richard Hodson

Graduate Advisor: Dr. Charles L. Hamilton

The graduate programs in Geoscience are designed to enable the student to pursue further study in the various areas of the Department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training.

For the arts and science student, a graduate program is designed to give opportunity for in-depth study in the broad field of Geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in (1) metamorphic and igneous geology, (2) stratigraphy, paleobiology and sedimentology, or (3) oceanography and marine geology is possible. Some of the above courses will be taken at the various sites of the New Jersey Marine Sciences Consortium.

ADMISSION REQUIREMENTS

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specializa-

tion, as well as sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin (Admission to Graduate Study). Each candidate's background and credentials must be approved by the graduate advisor for the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN GEOSCIENCE

Thirty-two semester hours are required, of which up to eight may be at the 400 level. Additional 400 level courses will not be given credit without written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for graduate courses in the area of professional education.

	Semester Hours
I. Required Courses (one from each group)	9-12
A. 1914 537 Biostratigraphy of New Jersey	4
1914 533 Advanced Invertebrate Paleobiology	4
1914 530 Paleoecology	3
B. 1914 503 Advanced Physical Geology	4
1914 504 Advanced Historical Geology	3
1914 571 Geophysics	3
C. 1914 543 Advanced Mineralogy	3
1914 546 Petrography	4
1914 545 Optical Mineralogy	4
II. Geoscience Electives	10-13
III. Research	
1914 695 Thesis	4
IV. Free Electives	6
V. Comprehensive Examination	

Minimum: 32 semester hours

GEOSCIENCE

Course Descriptions

	Semester Hours
Z 1914 503 ADVANCED PHYSICAL GEOLOGY	4
In-depth study of the major problems of physical geology processes of erosion, rock formation, continent and ocean-basin origin and relationships, earthquakes, interior of the earth, volcanism, island arcs, mountain building, paleomagnetism, continental drift, and sea-floor spreading. Field trips. (3 hours lecture; 2 hours lab)	
Prerequisites: A course in physical geology plus 8 hours of additional geoscience at 400 level.	

Z 1914 525 ENVIRONMENTAL GEOSCIENCE 3

In-depth study of the relationships between man and the physical environment of atmosphere, hydrosphere and lithosphere. Particular attention to problems of mineral resource and fossil-fuel depletion; pollution of air, water and soils and waste disposal and recycling, simple computer modeling of environmental situations. (3 hours lecture)

Prerequisite: Graduate standing in either the Environmental Studies-Physical or Geoscience Program, or instructor's permission.

Z 1914 530 PALEOECOLOGY 3

Distribution and association of fossils as interpreted from the evidence presented in the geologic record. Detailed paleoecological field study made of selected faunal assemblages. (2 hours lecture; 2 hours lab)

Prerequisite: Course in invertebrate paleobiology.

Z 1914 532 MICROPALaeOBIOLOGY 4

Taxonomic, morphologic, paleoecologic and stratigraphic consideration of microfossils with special emphasis on those from the marine environment. (3 hours lecture; 2 hours lab)

Prerequisites: Z 1914 431 or W 0401 130 or instructor's permission.

Z 1914 535 VERTEBRATE PALEOBIOLOGY 3

The geologic history, morphology, taxonomy, paleogeography and evolution of fossil vertebrates. Required field trips. (2 hours lecture; 2 hours lab)

Prerequisite: Z 1914 114 and W 0401 131 or instructor's permission.

Z 1914 537 BIOSTRATIGRAPHY OF NEW JERSEY 3

The geologic history, paleontology, stratigraphy and paleogeography of New Jersey. Required field trips. (2 hours lecture; 2 hours lab)

Prerequisite: Z 1914 530 or instructor's permission.

Z 1914 545 OPTICAL MINERALOGY 3

Theory and practice of using the polarizing microscope to study and identify minerals; theory of light transmission in minerals; the practical effect. Required field trips. (3 hours lecture; 2 hours lab)

Prerequisites: Course in mineralogy.

Z 1914 546 PETROGRAPHY 4

Rock textures, structures and mineralogy using the polarizing microscope. Identification and classification of rocks and the origin and history of the rock as determined by microscopic study of thin sections. Required field trips. (3 hours lecture; 2 hours lab)

Prerequisites: Courses in petrology and optical mineralogy.

Z 1914 571 GEOPHYSICS 3

Theory and application of conventional geophysical methods: seismology, magnetism, electricity and gravity. Laboratory includes the collection and interpretation of geophysical data. Field trips. (3 hours lecture)

Prerequisites: Courses in physical geology and College Physics II and Calculus A.

Z 1914 575 GEOCHEMISTRY**3**

Chemical laws and principles applied to the earth, chemical composition of the earth, distribution and relative abundance of the elements. Radioactive materials, atmospheric precipitation of geochemicals, the geochemistry of polluted water (including solid and liquid wastes) study of meteorites. Required field trips. (3 hours lecture)

Prerequisites: General chemistry, petrology.

Z 1914 592 SPECIAL PROBLEMS IN GEOSCIENCE**1-4**

Independent research project to be performed by the student under faculty guidance.

Prerequisite: Matriculation for the M.A. degree in Geoscience or permission of Geoscience faculty.

Z 1914 658 SEMINAR IN ENVIRONMENTAL GRAPHICS**3**

The use of graphic materials suitable for analyzing, understanding and presenting aspects of the environment through seminar presentation. The preparation of illustrative materials, especially suitable for inclusion in environmental impact statements as well as for public presentation, will be developed by each student as a culminating research project.

Prerequisites: At least 12 hours of graduate credit in environmental science or with instructor's permission.

Z 1914 695 THESIS**4**

In-depth field, laboratory and library investigation of a problem in the area of the student's interest in geoscience; results will be presented in oral and written form culminating in a written thesis.

Prerequisite: Matriculation for the M.A. degree in geoscience.

Offered at the New Jersey Marine Sciences Consortium.

Z 1999 598 SPECIAL PROBLEMS IN THE MARINE SCIENCES**1-4**

An opportunity for the qualified graduate student to do research in a field of marine science selected under the guidance of a professor. Open only to graduate students who have indicated a potential for original thinking. Also offered at the site of the N.J. Marine Sciences Consortium.

Prerequisites: Graduate standing in natural or social science and permission of the departmental graduate advisor.

HEALTH PROFESSIONS

Chairperson and Graduate Advisor: Dr. Harry H. Hoitsma

The graduate program leads to a Master of Arts degree in Health Education. Advanced study is provided candidates engaged in or seeking positions in the increasingly broader spectrum of the health professions, inclusive of the school, community, business-industrial sectors; the media and various other elements of the health care delivery system. A foundation of required

coursework is complemented by a wide array of health professions electives, interdisciplinary coursework, and varied educational experiences afforded by diverse instructional approaches. Advancements in the scientific realm combine with their practical implications as studies address our contemporary health problems and their tentative solutions. There is a definite research focus within the program. Students are provided with the option to either conduct a study on a pertinent health topic (in the form of a thesis or research project) or complete a broader-based research seminar. Special student interests, their academic objectives and professional goals, can be accommodated on an individualized basis. A written comprehensive examination is required of all candidates.

ADMISSION REQUIREMENTS

All candidates must meet the basic admission requirements for graduate study at Montclair State College. The completion of a major in health education from an accredited college or university is preferred. Candidates with degrees in closely related areas will be considered, although prematriculation coursework may be required. Applicants with a minor or less preparation in health education must complete designated coursework prior to matriculation. Students with a major in health education may also be required to undertake additional coursework where academic deficiencies are apparent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HEALTH EDUCATION

	Semester Hours
I. Required Course	15
0837 503 Research Methods in Health	3
0837 528 Evaluation in Health	3
0837 526 Curriculum Development in Health	3
0837 535 History and Foundations of Health I	3
0837 601 Research Seminar in Health	3
(plus an additional 3 semester hours health professions course)	
or	
0837 603 Research Project in Health	3
II. Selected Health Professions Coursework	9
The selection of coursework in this area will be determined through careful identification of the academic and professional goals of the student and will pertain to the major thrust of the candidate within the broad parameters of the health education field.	
0837 530 Seminar in Basic Issues in Health	3
(This course is recommended but not required prior to the comprehensive examination.)	
III. Electives	8
IV. Comprehensive Examination	
All matriculated students for the M.A. in Health Education who have	

completed 15 semester hours or more of health professions coursework, are eligible to take the Written Comprehensive Examination. Candidates are required to complete *any* three items chosen from among five provided in areas of: *research methods*, *evaluation*, *history*, *basic issues* and *curriculum*. Students retaking any item of the examination may respond to the item area they originally failed or they may employ the option of selecting any other item(s) not previously taken. The examination is scheduled in January and June of each year; prior registration is necessary through completion of applications available in the departmental offices. Candidates are limited to three attempts in completing the examination. There are no exceptions to this requirement.

Note:

1. No more than two of the following 400-level courses may be taken for credit applicable to this master's degree:

0837 411	The School Health Program	3
0837 430	Health Counseling	3
0837 440	Health Aspects of Aging	3
0837 445	Perspectives on Death	3
0837 460	Systems of Health Care Delivery	3
0837 470	Patient Education	3
2. The department provides opportunity for membership in Eta Sigma Gamma, a national health science honorary society.

HEALTH PROFESSIONS

Course Descriptions

Semester Hours

5 0837 502 DETERMINANTS OF ENVIRONMENTAL HEALTH 3

Advanced study of health and safety aspects of the environment: air, water, industrial pollution and the impact of expanding population on health problems.

Prerequisite: Courses in similar field or permission of instructor.

5 0837 503 RESEARCH METHODS IN HEALTH 3

Theoretical and practical experiences in methods of inquiry, designing of research studies, utilization of various tools for gathering data, statistical analysis of data, and writing of research proposals.

Prerequisite: 5 0837 528.

5 0837 505 SCHOOL HEALTH PROGRAM MANAGEMENT 3

Examines the various aspects of management theory pertinent to school health programs. Guiding principles and philosophical considerations of theory and practice are also reviewed. Includes management techniques, staffing patterns and accounting procedures essential for the successful school health program. Evaluative devices are analyzed and reviewed to determine the effectiveness of the total program.

Prerequisite: Majors only.

5 0837 510 HEALTH EDUCATION WORKSHOP I 1

For teachers of health education; deeper understandings of subject matter, current methods and techniques for the classroom, and considerations for curriculum development.

5 0837 511 BIOMEDICAL AND SOCIAL PERSPECTIVES ON ALCOHOL 3

Examines the different biological and pharmacological effects of alcohol use and common health complications of chronic abusive drinking. Includes a comprehensive study of the multiple theories of the development of alcoholism, its progression, and its impact on the individual, the family and the community at large.

5 0837 512 ALCOHOL WORKSHOP 3

A process-oriented experience planned to enrich and synthesize understanding of selected physiological, psychosocial, medical, legal, economic and safety factors associated with alcohol use and abuse. Attention is focused on education, prevention, treatment and rehabilitation techniques and the study of existing programs.

Prerequisite: Instructor's permission.

5 0837 513 DRUG ABUSE SEMINAR 3

Advanced study in selected aspects of drugs: recent pharmacological, legal, economic and rehabilitative developments. Emphasizes individual project approach.

Prerequisite: Course in addictions and dependencies or the drug abuse problem or instructor's permission.

5 0837 516 SELECTED DEVELOPMENTS IN COMMUNITY HEALTH 3

Advanced study of aspects of community health: recent developments in air and water pollution, waste disposal and sanitation, and communicable disease protection.

Prerequisites: Courses in similar field or instructor's permission.

5 0837 526 CURRICULUM DEVELOPMENT IN HEALTH EDUCATION 3

Nature and construction of comprehensive health education curricula, elementary grades through senior high school. Recommended for health education majors only.

Prerequisite: Basic course in health education and basic course in methods of teaching health education.

5 0837 528 THE EVALUATION OF HEALTH 3

Measurement and evaluation processes relating to health in schools and communities: examination and development of research instruments to evaluate behavior, knowledge and attitudes; interpretative and administrative factors involved in the evaluation process.

Prerequisite: A basic course in statistics or in tests and measurement.

5 0837 530 SEMINAR IN BASIC ISSUES IN HEALTH 3

Contemporary health topics and problems are identified, interpreted and critically analyzed for development of deeper insights and understanding of the basic issues; individual or group research project.

5 0837 531 INDEPENDENT STUDY IN HEALTH 1

Under the direction of departmental faculty member. Semester hours determined by department chairperson following consultation with departmental research committee.

Prerequisite: Majors only.

5 0837 532 AIR POLLUTION 3

A consideration of the diverse factors contributing to air pollution, the physiological responses of critical organs to air pollutants, public health and economic implication, air pollution control standards and legislation, and principles of monitoring devices.

Prerequisites: Year courses in college chemistry, and mammalian anatomy and physiology.

5 0837 535 HISTORY AND FOUNDATIONS – HEALTH I 3

Comprehensive historical study of our continual struggle against the forces of disease and infirmity. Includes health and medical practices of primitive peoples, ancient civilizations, the Middle Ages, and the renaissance.

Prerequisite: Majors only or instructor's permission.

5 0837 536 HISTORY AND FOUNDATIONS – HEALTH II 3

Comprehensive historical study of health and medical practices beginning with the seventeenth century and extending through the twentieth century. Major health science discoveries are identified and the development of school health education is considered.

Prerequisite: Majors only or instructor's permission.

5 0837 540 SELECTED TOPICS IN MENTAL HEALTH 3

Entails use of seminar approach for in-depth analysis of selected topics in mental health. Topics will vary according to class interest, but will include, among others, stress, labeling, racism, sexism, and ageism.

5 0837 545 STRESS AND ILLNESS 3

Provides for an in-depth study of the relationship between stress and illness. In the process of exploring this relationship, the major sources of stress are identified and their psychosocial determinants and their impact on health are analyzed and discussed. The mechanism of coping with stress and the strategies for reduction and prevention of stress are also studied and critically evaluated.

Prerequisite: 5 0837 540.

5 0837 551 SELECTED TOPICS IN GERONTOLOGY 3

Entails use of seminar approach for in-depth analysis of selected topics in gerontology. Topics will vary according to class interest, but will include, among others, ageism, health problems, loss and diminishment, homelessness and terminal old age.

Prerequisite: 5 0837 440.

5 0837 560 HUMAN DISEASES 3

Presents a contemporary view of the major infectious and chronic/degenerative diseases with an emphasis on the principles of causation, process, diagnosis, prevention, and management. Important past and present medical developments are discussed in the context of continuing change, methods and inferences of epidemiologic investigation are studied and the implications of ongoing research are considered. Concludes with an instructional component which addresses methodology and disease specific information resources.

Prerequisite: A basic course in biology.

5 0837 565 FOUNDATIONS OF EPIDEMIOLOGY 3

Provides an understanding of the epidemiologic method of identifying disease-causing agents. Emphasizes the generation of hypotheses based on descriptive epidemiologic data, the testing of hypotheses by analytical epidemiologic research design, the determination of causality and value of epidemiologic research in developing disease prevention programs.

5 0837 570 HUMAN SEXUALITY II 3

This course is designed for students who seek knowledge of the ethical, moral, psychological and biological concepts in human sexuality.

Prerequisite: 5 0837 290.

5 0837 575 THE TEACHING OF HUMAN SEXUALITY 3

Provides for the study of instructional methodologies and resource materials pertaining to human sexuality education. Emphasizes curriculum development, teaching plans, resource selection and the role of the teacher in school and community setting.

5 0837 576 FAMILY PLANNING EDUCATION 3

Provides students with an in-depth study of family planning education. Topics include history, methods of birth control, process of decision making, family planning services and methods and materials for family planning education.

5 0837 580 HEALTH POLICY AND POLITICS 3

Provides for the study of politics of health care, health policy issues and the health care delivery system. Special emphasis is placed on health policy as it has evolved in response to sociopolitical and economic factors and expected future trends.

5 0837 585 ORGANIZATION AND ADMINISTRATION OF HEALTH CARE FACILITIES 3

Analyzes organization and administration of health care facilities. Topics include nature of health care facilities, managerial processes, institutional staffing and productivity, social responsibilities, techniques of managerial innovation, funding sources and health facility legislation. Provides practical applications of relevant theory.

5 0837 586 HEALTH CARE FACILITIES AND SERVICES FOR THE AGED 3

An intensive study of the various health care facilities and services for the aged. Emphasizes the functions, administrative structure, and financing of these facilities, and explores accessibility, distribution of services, utilization patterns, financial assistance plans and health manpower. Trends in health care facilities and services for the aged are also discussed.

Prerequisite: Health Aspects of Aging or equivalent.

5 0837 588 PLANNING AND EVALUATION OF HEALTH PROGRAMS 3

Provides for the study of the processes and techniques of program planning, program implementation and program evaluation from a community health perspective, utilizing material from the related disciplines of epidemiology, sociology, psychology, anthropology, and social work.

Prerequisite: School and Community Health Program or Equivalent.

5 0837 601 RESEARCH SEMINAR IN HEALTH 3

Provides intensive study of the entire spectrum of research literature in the health professions field. Includes opportunities for analysis and critique of selected research studies and synthesis of research findings for theoretical and practical application.

Prerequisites: 5 0837 503, 528.

5 0837 603 RESEARCH PROJECT IN HEALTH 3

Provides an intensive research experience for master's degree candidates in health education. It reflects the culmination of coursework and involves the completion of a research document. All candidates must satisfactorily complete an oral examination based on the research experience.

Prerequisite: Successful completion of the departmental written comprehensive examination, 5 0837 503, 528.

HOME ECONOMICS

Chairperson and Graduate Advisor: Dr. Katharine B. Hall

The graduate program in Home Economics offers three professional emphases: Consumer Studies/Consumer Economics, Family Relations/Child Development, and Home Economics Education.

The program is designed to provide students with advanced study needed for college and university teaching, for leadership positions in various professions in business, for social welfare agencies, for public school and adult education programs, for research, and for extension service.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. An individual program of study is developed for each student depending on professional goals and educational background.

Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisite to graduate study. Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the undergraduate or graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HOME ECONOMICS

	Semester Hours
I. Required Courses	12-13
1301 507 Research in Home Economics	3
1301 509 Research Seminar or 1301 600 Thesis	3 or 4
1301 540 Interdisciplinary Study of the Family	3
1301 590 Contemporary Issues in Home Economics	3
II. Professional Emphasis	9
Select from one of the following groups:	
A. Consumer Studies – Home Management – Consumer Economics	
1301 530 Consumer Behavior	3
1301 531 Family Financial Problems	3
1301 532 Family and Consumer Economics	3
1301 535 Consumer and Family Law	3
1301 560 Housing the Family	3
1301 570 The Management of Family Resources	3
1301 571 Problem-Solving in Family Counseling	3
1301 572 Management Seminar	3
0893 403 Consumer Education Techniques	3
B. Family Relations–Child Development	
1301 503 Program Development in Family Life Education	3
1301 514 The Child in the Family	3
1301 542 Dynamics of Family Interaction	3
1301 544 Intercultural Study of the Family	3
1305 445 The Inner City Family	3
C. Home Economics Education	
1301 501 Seminar in Home Economics Education	3
1301 503 Program Development in Family Life Education	3
1301 506 Supervision of Home Economics	3
0893 403 Consumer Education Techniques	3

- III. Home Economics Electives 3-9
To be selected from approved Home Economics courses.
- IV. Electives Outside the Department 3-9
- V. Comprehensive Examination, both oral and written to be taken after completing 24 semester hours of graduate study. Students must apply to the graduate advisor at the beginning of the semester in which the exams will be taken. The comprehensive examination is given each Fall and Spring semester.
- VI. Candidates who choose to write a thesis will register for 1301 600 for four semester hours credit in lieu of 1301 509 Research Seminar. The comprehensive exam is waived. A thesis defense is required upon the completion of the thesis before the candidate's graduate Thesis Committee.

Minimum: 32 semester hours

HOME ECONOMICS

Course Descriptions

- | | Semester
Hours |
|--|---------------------------|
| 6 1301 501 SEMINAR HOME ECONOMICS EDUCATION | 3 |
| Identification of the issues in home economics education at all levels. Trends are analyzed as a basis for managing change in curriculum and instruction. Each participant will design a project and plans for implementation. | |
| Prerequisite: Graduate status. | |
| 6 1301 503 PROGRAM DEVELOPMENT IN FAMILY LIFE
EDUCATION | 3 |
| Analysis of the development of family living programs in public schools and other agencies. Current problems, practices, and trends. Designing and planning for the implementation of innovative programs. | |
| Prerequisite: Graduate status. | |
| 6 1301 507 RESEARCH IN HOME ECONOMICS | 3 |
| Designed to provide basic research and statistical literacy so that students can develop a research proposal in its entirety in any one area of home economics. | |
| Prerequisite: 6 1301 304 or equivalent course; graduate matriculation; majors only. | |
| 6 1301 508 INDEPENDENT STUDY | 1-3 |
| An opportunity to study in depth, areas of home economics which are not offered in the regular curriculum. Approval of department chairman required. | |
| Prerequisite: Instructor's permission; graduate status. | |

6 1301 509 RESEARCH SEMINAR 3

Carrying out a research study on specific problems of limited scope. Work may be taken in the following areas: child and family, family and consumer studies, family housing, foods, nutrition, textiles, clothing or home management.

Prerequisite: 6 1301 507; graduate matriculation; majors only.

6 1301 514 CHILD IN THE FAMILY 3

An intensive study of the theories and research related to child rearing techniques. Analysis of factors influencing parental practices and their effects on the child.

Prerequisite: Graduate status.

6 1301 530 CONSUMER BEHAVIOR 3

Investigating consumer behavior from the consumers perspective. Emphasis on individual perception, motivation, learning, and personality as well as family organization, social class, subcultures and national economic trends.

Prerequisite: Graduate status.

6 1301 531 FAMILY FINANCIAL PROBLEMS 3

Study of families with financial concerns and crises. Emphasis on effective use of money to meet families' life styles and alleviate problem areas.

Prerequisite: Graduate status.

6 1301 532 FAMILY AND CONSUMER ECONOMICS 3

Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.

Prerequisite: Graduate status.

6 1301 535 CONSUMER AND FAMILY LAW 3

Laws and policies of institutions which affect family function, relationships and welfare.

Prerequisite: Graduate status.

6 1301 540 INTERDISCIPLINARY STUDY OF FAMILY 3

Contributions which various academic disciplines (history, anthropology, biology, economics, as well as psychology and sociology) make towards a more comprehensive understanding of family life.

Prerequisite: Graduate status.

6 1301 542 DYNAMICS OF FAMILY INTERACTION 3

Critical review of concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.

Prerequisite: Graduate status.

6 1301 544 INTERCULTURAL STUDY OF FAMILY 3

Analytical study of cross cultural regularities and differentials in family structures. Functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of family as well as a broad acquaintance with empirical studies and research.

Prerequisite: Graduate status.

- 6 1301 560 HOUSING THE FAMILY 3**
 Analysis of location, structure, design, furnishings and equipment as a setting for the physical and emotional development of the individual and the family.
 Prerequisite: Graduate status.
- 6 1301 570 MANAGEMENT OF FAMILY RESOURCES 3**
 Family as a decision-making unit. Directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential status.
 Prerequisite: Graduate status.
- 6 1301 571 PROBLEM SOLVING IN FAMILY COUNSELING 3**
 Counseling families in problem solving on resource use, including the resources of time, energy, attitudes and material and non-material goods and services.
 Prerequisite: Graduate status.
- 6 1301 572 MANAGEMENT SEMINAR 3**
 Application of personal management concepts to one's professional role with the goal of developing more effective ways of handling professional situations and responsibilities.
 Prerequisite: Graduate status.
- 6 1301 580 NEW FINDINGS IN NUTRITION 3**
 Recent developments in nutrition and a critical review of fundamentals.
 Prerequisite: Graduate status.
- 6 1301 590 CONTEMPORARY ISSUES IN HOME ECONOMICS 3**
 A seminar dealing with issues in home economics with special emphasis on designing programs for social change.
 Prerequisites: Graduate matriculation and 20 semester hours in graduate program, majors only.
- 6 1301 600 THESIS IN HOME ECONOMICS 4**
 Individual research selected under advisement of a faculty committee. An oral exam by the committee follows the completion of the project. Required for registration: written permission from major faculty advisor of the research, and department chair; graduate matriculation.
 Prerequisites: 6 1301 507 and instructor's permission.

INDUSTRIAL STUDIES

Chairperson and Graduate Advisor: Dr. George Olsen

The graduate program in Industrial Education and Technology is designed to improve the professional training of industrial education teachers, to enhance their teaching proficiency through study of trends and developments in the field, to improve the organization of the industrial arts laboratory and to provide a basis for work in administration and supervision. Emphasis is given to advanced work in Industrial Education and related fields which broaden professional experiences and accent industrial concepts.

Graduate programs of students matriculated in the department are tailored to the individual's needs through consultation with the graduate advisor. Students must meet the departmental requirements for either a thesis program (Option A) or a non-thesis program with a comprehensive examination (Option B).

Graduate students matriculated in the Master of Arts degree program who desire certification as a Supervisor of Industrial Education or as a Coordinator of Cooperative Industrial Education can arrange their programs with the graduate advisor.

ADMISSION REQUIREMENTS

Study toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in the same area. Individuals who have undergraduate majors in this area, but do not wish to work toward a degree, may enroll in graduate courses in the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION A)

		Semester Hours
I.	Required Courses	
	A. General	6
	0824 503 Methods of Research	3
	Education Elective	3
	B. Industrial Education Specialization	12
	1. Required	
	0996 502 Curriculum Construction and Course Organization in Industrial Education	3

0996 509	Industrial Education Facilities	
	Planning	3
0996 607	Research Seminar in Industrial Education	
	(Full Year)	6
2.	Electives	6
	Six semester hours approved by departmental advisor to be selected from: 0996 501, 503, 504, 505, 606.	
II.	Free Electives	4
	Selected from among any 500 or 600 level course for which the student meets any departmental prerequisites or restrictions. Senior-graduate (400 level) courses must be approved by the graduate advisor, when the official work program is developed.	
III.	Thesis	4
	Each candidate for this program will select a thesis topic, thesis advisor, two thesis committee members (one within the department, one from outside the department) and register according to department and College policy. An oral examination based on the completed thesis is part of the thesis requirement.	

Minimum: 32 semester hours

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION B)

I.	Required Courses	
A.	General	6
	0824 503 Methods of Research	3
	Education Elective	3
B.	Industrial Education Specialization	12
	1. Required	
	0996 502 Curriculum Construction and Course	3
	Organization in Industrial Education	
	0996 509 Industrial Education Facilities	
	Planning	3
	0996 607 Research Seminar in Industrial Education	
	(Full Year)	6
	2. Electives	12
	Twelve semester hours approved by departmental advisor to be selected from 0996 501, 503, 504, 505, 606.	
II.	Free Electives	4
	Selected from among any 500 or 600 level course for which the student meets any departmental prerequisites or restrictions. Senior-graduate (400 level) courses must be approved by the graduate advisor, when the official work program is developed.	
III.	Comprehensive Examination	
	A written comprehensive examination, scheduled twice each year dur-	

ing the Fall and Spring semester, is required of all candidates for the Master of Arts Degree within this program option.

Minimum: 36 semester hours

Certification

The department offers three forms of certification:

1. Supervisor
2. Cooperative Industrial Education Coordinator
3. Post-Baccalaureate
 - (a) initial field
 - (b) additional field

For more details, see certification section of this catalog or contact the department graduate advisor.

INDUSTRIAL EDUCATION AND TECHNOLOGY

Course Descriptions		Semester Hours
7 0839 598	TEACHING THE DISADVANTAGED STUDENT IN VOCATIONAL PROGRAMS	3
A study of principles, procedures and techniques for the disadvantaged. Student emphasis will be on programmatical and instructional strategies.		
7 0996 501	HISTORICAL AND CONTEMPORARY INDUSTRIAL STUDIES LITERATURE	3
Material surveyed for applicability to laboratory teaching and professional improvement: historical writings, research literature, materials provided by corporations and government agencies and pertinent reference works.		
7 0996 502	CURRICULUM CONSTRUCTION AND COURSE ORGANIZATION IN INDUSTRIAL STUDIES	3
Development of industrial education courses of study and instructional materials.		
7 0996 503	CONTEMPORARY PROBLEMS IN INDUSTRIAL STUDIES	3
Seminar group exploration of a current problem or issue in contemporary industrial education: a research, discussion, presentation format.		
7 0996 504	INSTRUCTIONAL MATERIALS IN INDUSTRIAL STUDIES	3
The research, creation, development, and application of innovative industrial education methodology and instructional materials. Prerequisite: 4 0840 400 or instructor's permission.		
7 0996 505	SUPERVISION OF INDUSTRIAL STUDIES	3
Principles and practices discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.		

7 0996 506 MAINSTREAMING THE SPECIAL EDUCATION PUPIL 3
IN INDUSTRIAL EDUCATION

An introduction to disabilities and related behaviors, practices and materials and resources available to assist the instructor in the successful integrating of special needs learners into the industrial education classroom/laboratory.

7 0996 507 ADAPTIVE INDUSTRIAL EDUCATION 3

A study of principles, procedures and techniques utilized in the design and implementation of adaptive industrial education programs for students with special needs. Emphasis will be on the implementation of program material and instructional strategies appropriate for use in a self-contained setting.

7 0996 508 PRACTICUM IN SPECIAL NEEDS - 3
INDUSTRIAL EDUCATION

Students draw upon a field experience for the purpose of curriculum modification related to an aspect of special needs - industrial education. Sixty five hours of practicum permit students to integrate classroom learning with on-the-job implementation.

Prerequisites: 7 0996 506, 507.

7 0996 509 INDUSTRIAL STUDIES FACILITIES PLANNING 3

Planning and equipment selection: practical application of architectural aspects, floor plan layouts, equipment selection, bid preparation and two- or three-dimensional models.

7 0996 606 INDEPENDENT STUDY INDUSTRIAL STUDIES I 1-3

Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved industrial course of seminar related to the student's special area of interest. May be taken three times with the graduate advisor's approval, for a total of three semester hours.

Prerequisite: 4 0824 503 or instructor's permission.

7 0996 607 RESEARCH SEMINAR IN INDUSTRIAL STUDIES 6

A survey of industrial research, technical reports, centers, institutes, laboratories and material standards. The undertaking of an industrial research and development problem, reflecting the graduate students' area of concentration, and the preparation of a publishable technical report. To run a full academic year from September to June.

Prerequisite: 4 0824 503.

7 0997 501 PRINCIPLES AND PHILOSOPHY OF COOPERATIVE 3
INDUSTRIAL STUDIES

Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative industrial education programs.

7 0997 502 CURRICULUM CONSTRUCTION IN COOPERATIVE 3
INDUSTRIAL STUDIES

Techniques designed to meet needs of related and laboratory teaching, and school work programs; curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

7 0997 503 PROBLEMS IN ORGANIZING AND TEACHING COOPERATIVE INDUSTRIAL EDUCATION PROGRAMS 3

Various practices for coordinating high school programs with needs of local industry. Emphasis on supervisory responsibilities within the school and cooperation required with public and private agencies.

7 0996 582 CAREER GUIDANCE AND OCCUPATIONAL INFORMATION 3

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training. Cross-listed as 2 0826 582.

LINGUISTICS

Students seeking certification in Teaching English as a Second Language may offer the courses listed below to satisfy state requirements. Students in other programs may elect Linguistics courses with their advisor's prior approval.

LINGUISTICS

Course Descriptions

**Semester
Hours**

Q 1505 520 APPLIED LINGUISTICS IN MINORITY EDUCATION 3

The applications of linguistics, psycholinguistics, and sociolinguistics to the teaching of languages. Topics include second-language teaching, teaching standard English to speakers of non-standard English, and the teaching of reading and writing.

Q 1505 525 SOCIOLINGUISTICS IN EDUCATION 3

Study of language in its social context. Topics include: language and ethnicity, language and social class, standard vs. nonstandard varieties of language, code-switching, pidginization and creolization, attitudes towards non-standard varieties of language.

Q 1505 540 LANGUAGE AND CULTURE IN MINORITY EDUCATION 3

Intended to develop an awareness in the student of the intimate connection between language, culture, and ethnic pride and identity. Study of the communication problems of bilingual children due to differences in the verbal and non-verbal patterns of communication, survey of the various instructional methods and models employed in teaching children from different linguistic and cultural backgrounds, and study of the correlation between language and socio-economic class.

MATHEMATICS AND COMPUTER SCIENCE

Chairperson: Dr. Kenneth C. Wolff

Graduate Advisor: Dr. Helen M. Roberts

The department of Mathematics and Computer Science offers two master's degrees, a Master of Arts Degree in Mathematics with four different concentrations and a Master of Arts Degree in Computer Science.

MASTER OF ARTS DEGREE IN MATHEMATICS

The department offers a Master of Arts Degree in Mathematics with four different areas of concentration: computer science, mathematics education, pure and applied mathematics and statistics. The master's degree in mathematics with a computer science concentration differs from the master's degree in computer science. The programs in pure and applied mathematics, statistics and computer science provide students with the advanced courses needed for teaching at the high school level, and for positions of leadership in business, industry and government. The program in mathematics education will upgrade the skills of teachers and offers a special combination of courses in mathematics and mathematics education.

A cooperative doctoral program between Montclair State College and Teachers' College Columbia University is available to qualified students in the Mathematics Education program. Further information on this program is available from the chairperson.

ADMISSION REQUIREMENTS

The candidate for the Master of Arts Degree in Mathematics must present an undergraduate major of at least 30 semester hours in mathematics. Courses in a related area that have substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth may be required to complete certain prerequisites which will not carry graduate credit. All students must meet the admission requirements for graduate study at Montclair State College.

A candidate for the Master of Arts Degree in Mathematics must consult the graduate advisor of the department of Mathematics and Computer Science before matriculation since the choice of graduate courses should be adjusted to the preparation acquired in undergraduate work. The student's work program, for a minimum of 33 semester hours of course work, is prepared in consultation with the graduate advisor. Up to 6 semester hours can be taken at the 400 level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MATHEMATICS

PURE AND APPLIED CONCENTRATION

	Semester Hours
I. Required	12
One sequence of 2 courses in algebra, chosen from: 1701 531-532 or 535-536 and, One sequence of 2 courses in analysis, chosen from: 1701 521-522 or 525-526	
II. Mathematics Electives	15
Courses selected from: 1701 520 to 569 0701 580 to 594 1701 420 to 469 Students must take 425 and 426 if not previously taken.	
III. Free Electives	6
IV. A passing grade on a comprehensive examination in Algebra and Analysis. Students are required to have a 3.0 grade point average in order to be granted permission to take the Comprehensive Examination.	
V. In order to be granted a Master of Arts Degree in Mathematics, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the department of Mathematics and Computer Science.	

STATISTICS CONCENTRATION

	Semester Hours
I. Required	12
1701 541, 543, 548 are required courses At least one additional course must be chosen from 1701 540 to 549.	
II. Mathematics Electives	15
Courses selected from: 1701 520 to 569 0701 580 to 594 1701 420 to 469 At least 12 semester hours must be at the 500 level. Students must take 425 and 426 and either 440 or 443, and a computer science course, if they have not previously taken equivalent courses.	
III. Free Electives	6
IV. A passing grade on a comprehensive examination. The comprehensive examination is taken in Statistics and a subspecialty selected from Algebra, Analysis or Computer Science. Student's are required to have a 3.0 grade point average in order to be granted permission to take the Comprehensive Examination.	

- V. In order to be granted a Master of Arts Degree in Mathematics, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the department of Mathematics and Computer Science.

COMPUTER SCIENCE CONCENTRATION

	Semester Hours
I. Required	12
Students are required to select three courses from 0701 580, 581, 583, 586 and an additional course from 0701 580 to 594 or 1701 560.	
II. Mathematics Electives	15
Courses selected from:	
1701 520 to 569	
1701 420 to 469	
At least 12 semester hours must be at the 500 level. Students must take 425 and 426 and either 431 or 436, and either 440 or 443, if they have not previously taken equivalent courses.	
III. Free Electives	6
IV. A passing grade on a comprehensive examination. The comprehensive examination is taken in Computer Science and a subspecialty selected from Algebra, Analysis or Statistics. Student's are required to have a 3.0 grade point average in order to be granted permission to take the Comprehensive Examination.	
V. In order to be granted a Master of Arts Degree in Mathematics, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the Department of Mathematics and Computer Science.	

MATHEMATICS EDUCATION CONCENTRATION

	Semester Hours
I. Required	12
Courses selected from: 1701 510-513, 570-579	
II. Mathematics Electives	15
Courses selected from:	
Algebra: 1701 431, 531, 532, 535, 536	
Analysis: 1701 420, 425, 426, 521, 522, 525, 526	
Statistics: 1701 440, 443, 540 to 549	
Geometry: 1701 450, 551, 554, 555	
Computer Science: 0701 514, 580 to 594, 1701 560	
At least 9 semester hours must be at the 500 level. Students must take courses from at least 3 of the above 5 areas. Students must take 425 and 431, if they have not previously taken equivalent courses.	
III. Free Electives	6
IV. A passing grade on a comprehensive examination. The comprehensive examination is taken in Mathematics Education and a subspecialty selected from Algebra, Analysis, Computer Science or Statistics. Student's are required to have a 3.0 grade point average in order to be	

- granted permission to take the comprehensive examination.
- V. In order to be granted a Master of Arts Degree in Mathematics, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the department of Mathematics and Computer Science.

MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

The department of Mathematics and Computer Science offers a Master of Arts Degree in Computer Science. The department also offers a Computer Science Concentration as part of its Master of Arts Degree in Mathematics.

The graduate program in computer science is designed for students interested in pursuing computer science both theoretically and practically at the advanced level. The program is designed to develop the foundations and concepts of computer science rather than just routine programming skills. Students are prepared for professional work in the design and implementation of software systems, data base systems, operating systems, and algorithms for discrete and continuous structures that will aid in the solution of problems in science and business. The curriculum is designed to allow students to develop the skills needed to achieve leadership positions in business, industry and government in computer science or related fields where computer science has become an essential tool. The program is also designed to prepare teachers of computer science at the middle school, high school and two year college levels.

The graduate program in computer science began in 1978. At present there are ten full time faculty members teaching computer science courses. The special interests of the faculty include automata theory, complexity theory, data bases, graphics, machine organization and hardware, management information systems, and operating systems. The department has the advantage of having professional computer scientists as both faculty and visiting specialists. The visiting specialists are drawn from the aerospace, chemical and pharmaceutical industries. This mix of faculty affords the students the opportunity to obtain an education in practical and theoretical aspects of computer science.

Montclair State College is one of the principal users of the New Jersey Educational Computing Network a corporation which provides computing services to the state colleges. Through 25 terminals and a remote entry station, students can program on an IBM 3033U, using the batch mode, or an IBM 4381, using the conversational (interactive) mode. Software packages include SAS (Statistical Analysis System) and SPSS (Statistical Packages for the Social Sciences) for statistical computing, and RAMIS, FOCUS, IDMS for data base management systems, IMSL (International Mathematics and Statistics Library) for mathematical and statistical problem solving. Additional computer power is provided by the VAX 11/780 super-mini. The department also has a graphics terminal and a graphics plotter and various microcomputers that are available for students. There are 27 Digital Rainbow microcomputers in the microcomputer laboratory with plans for the addition of more microcomputers. The department also has a

laboratory which contains 8 IBM 3270 type terminals, and one which contains a number of APPLE II's, and a variety of other microcomputers.

ADMISSIONS REQUIREMENTS

1. Applications must be submitted by March 1 in order to be considered for Fall admission.
2. Applicants must possess a bachelors degree from an accredited institution with either:
 - a. a major in computer science or mathematics
 - b. a major in science or engineering
 - c. another major with an overall cumulative grade-point average of 3.0 (B) or other indications of the ability to complete the program.
3. Applicants must have taken at least 15 undergraduate credits including calculus, linear algebra, probability and discrete mathematics. Deficiencies in mathematics can be rectified by taking 1701 501, 502, 503 which are accelerated Mathematics courses. When required, these will be "prerequisite courses" on the graduate work program. The sequence requires one year to complete. (Fall, Spring and Summer semester.)
4. Applicants must
 - a. have knowledge of data structures and
 - b. be proficient in the following computer programming languages:
 - i) FORTRAN or Pascal or PL/I
 - ii) Assembly Language

A two-semester course sequence in these languages or one year's programming experience in industry will suffice for each of these requirements. Deficiencies in computer science can be rectified by taking 0701 505, 506, 507. These are accelerated computer science courses designed for the student to master the necessary concepts for the graduate program rather than just routine programming skills. When required, these will be "prerequisite courses" on the graduate work program. The sequence requires one year to complete. (Fall, Spring and Summer semester.)

Applicants satisfying admission requirements but needing to make up work in the fundamentals of Mathematics and/or Computer Science (1701 501, 502, 503 and 0701 505, 506, 507) are granted deferred matriculation. Upon completion of the necessary courses with a minimum grade point average of 3.0, students will be granted full matriculation.

All students must meet the admission requirements for graduate study at Montclair State College.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

	Semester Hours
I. Required	21
0701: 580, 581, 583 and 586.	
Three additional courses selected from	
0701: 580 to 594 or 1701: 560.	
II. Mathematics, Computer Science Electives	6
Courses selected from:	
1701: 520 to 569	

0701: 580 to 594

1701: 420 to 469

- III. Free Electives 6
- IV. A passing grade on a comprehensive examination in computer science. Student's are required to have a 3.0 grade point average in order to be granted permission to take this Comprehensive Examination.
- V. In order to be granted a Master of Arts Degree in Computer Science, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the Department of Mathematics and Computer Science.

NOTE: Courses 1701 501, 502, 503 and 0701 505, 506, 507 are not to be counted among the 33 semester hours required for completion of the program.

COMPUTER SCIENCE

Course Descriptions

**Semester
Hours**

Y 0701 505 FUNDAMENTALS OF COMPUTER SCIENCE I 4

An introduction to programming using a structured high level language, design of algorithms, character strings, recursion, data structures, numerical computing. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Graduate advisor's permission.

Y 0701 506 FUNDAMENTALS OF COMPUTER SCIENCE II 4

A continuation of 0701 505. Introduction to assembly language, addressing techniques, subroutine linkage, input/output and macros. Introduction to computer organization including memory, logic design and computer architecture. May not be used for credit by Mathematics and Computer Science majors.

Prerequisites: Y 1701 501, Y 0701 505 and graduate advisor's permission.

Y 0701 507 FUNDAMENTALS OF COMPUTER SCIENCE III 3

A continuation of 0701 505 and 506. Design and analysis of data structures, pointers, linked representations. May not be used for credit by Mathematics and Computer Science majors.

Prerequisites: Y 1701 502, Y 0701 506 and graduate advisor's permission.

**Y 0701 514 ADVANCED PLACEMENT COMPUTER SCIENCE 3
CONCEPTS WITH PASCAL**

This course is specifically designed to help senior high school teachers prepare to instruct the AP course in computer science. Topics include the problem solving process, good programming style, the syntax of Pascal, and their applications to computer science. Pascal will be a vehicle for classroom examples and outside class assignments. It will be used to discuss algorithms, data structures, procedures, program design, sorting and searching. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors.

Prerequisite: Permission of the graduate advisor.

- Y 0701 580 MACHINE ORGANIZATION AND ARCHITECTURE 3**
Basic computer organization and design, digital functions, data representation, microprogramming, CPU organization, the Assembler language and addressing techniques.
Prerequisites: Y 0701 507, Y 1701 503 and graduate advisor's permission.
- Y 0701 581 SYSTEMS PROGRAMMING 3**
Assemblers, macroprocessors, linkers and loaders, introduction to compilers and run facilities.
Prerequisite: Y 0701 580.
- Y 0701 582 THEORY OF AUTOMATA AND FORMAL LANGUAGES 3**
Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, turing machines, computability, deterministic languages, linear bounded automata and stack automata.
Prerequisite: Y 0701 507, Y 1701 503.
- Y 0701 583 COMPUTER ALGORITHMS I 3**
Algorithms: definition, design and analysis; sorting and searching techniques and introductory dynamic programming studied as algorithms with complexity theory and optimization techniques applied.
Prerequisites: Y 0701 507, Y 1701 503.
- Y 0701 584 OPERATING SYSTEM DESIGN 3**
Design and implementation of operating systems, multiprogramming, multiprocessor, device management, scheduling, virtual memory, case studies.
Prerequisite: Y 0701 581.
- Y 0701 585 TOPICS IN COMPUTER SCIENCE 3**
Recent developments in the field. Topics such as Monte Carlo methods, Artificial Intelligence, telecommunications, graphics, expert systems, security, networks and special areas of applications.
Prerequisite: Y 0701 580, instructor's permission.
- Y 0701 586 INFORMATION RETRIEVAL AND SYSTEM DESIGN 3**
Random and sequential files. File organization and processing. Access methods, data bases, system dynamics, concepts and design of information systems. Case studies and applications.
Prerequisite: Y 0701 507, Y 1701 503.
- Y 0701 587 MICROCOMPUTERS AND INTERFACES 3**
Introduction to geneology, manufacture and hardware design of microprocessors, microcomputer architecture, instruction sets and programming, microcomputer peripherals and interfaces.
Prerequisite: Y 0701 580.
- Y 0701 588 COMPUTER ALGORITHMS II 3**
Dynamic programming, game trees and backtracking techniques, branch and bound, polynomial evaluation and fast Fourier transform algorithms; complexity and analysis, and optimization techniques will be applied. NP-hard problems and NP-completeness.
Prerequisite: Y 0701 583.

Y 0701 589 COMPUTER SIMULATION OF DISCRETE SYSTEMS 3
Introduction to simulation and discrete simulation models. Queuing theory and stochastic processes. Simulation methodology including generation of random numbers and variates, design of simulation experiments, analysis of data generated by simulation experiments and validation of models. Survey of current simulation languages and selected applications.
Prerequisite: Y 0701 580.

Y 0701 590 COMPUTER SIMULATION OF CONTINUOUS SYSTEMS 3

Computer simulation of continuous systems with emphasis on conservation principles and governing equations, numerical treatment of systems of algebraic and differential equations, the use of software packages and simulation languages, verification and validation techniques, and interpretation and presentation of results.
Prerequisite: Y 0701 580.

Y 0701 591 COMPILER THEORY AND CONSTRUCTION 3

Introduction to the formal description of programming languages, the theory of parsing, and the concepts and techniques used in the construction of compilers.
Prerequisite: Y 0701 581.

Y 0701 592 DATA BASE DESIGN AND IMPLEMENTATION 3

To develop in-depth understanding of data base concepts and issues. The major emphasis of the course is on the conceptual (logical) organization, retrieval, and manipulation of data.
Prerequisite: Y 0701 586.

Y 0701 593 STRUCTURED SYSTEM DESIGN AND ANALYSIS 3

A study of the design of large scale computer systems relative to the constraints imposed by hardware, software and particular types of applications. Recent work in automated system design will be discussed.
Prerequisite: Y 0701 586.

Y 0701 594 SOFTWARE ENGINEERING AND RELIABILITY 3

This course will introduce the principles and methods for the design, coding, and verification of software systems. Topics include software design techniques, programming methodology, programming testing, proving program correctness, software reliability, and software management.
Prerequisite: Y 0701 593.

Y 0701 595 SEMINARS IN COMPUTER SCIENCE 1-4

Guided study of selected topics in major field of interest.
Prerequisite: Instructor's permission.

MATHEMATICS

Course Descriptions

Semester Hours

Y 1701 501 MATHEMATICS FOR COMPUTER SCIENCE I 4

Sets, relations, functions, graphs, trees, propositional calculus, induction and recursion, applications to computer science. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Y 1701 115 and graduate advisor's permission.

Y 1701 502 MATHEMATICS FOR COMPUTER SCIENCE II 4

A continuation of Y 1701 501. Introduction to linear algebra, vectors, matrices, eigenvalues, introduction to counting rules, probability theory, random variables, Poisson and binomial distribution, applications to computer science. May not be used for credit by Mathematics and Computer Science majors.

Prerequisite: Y 1701 501 and graduate advisor's permission.

Y 1701 503 MATHEMATICS FOR COMPUTER SCIENCE III 3

Differential and integral calculus, infinite series, applications to computer science. May not be used for credit by Mathematics and Computer Science majors.

Prerequisite: Y 1701 115 and graduate advisor's permission.

Y 1701 510, 511 WORKSHOP IN MATHEMATICS 3 each **EDUCATION I, II**

Specific contemporary topics and current issues in the junior and senior high school. Available experimental and commercial textbooks. Mathematical content. Sources of aids and equipment. Training of key in-school personnel. Problems of implementation.

Y 1701 512 COMPUTER SCIENCE CONCEPTS FOR 3 **MIDDLE SCHOOL TEACHERS**

This course offers the middle school teacher an opportunity to prepare and evaluate problem solving activities for classroom demonstration in the middle school using the microcomputer. BASIC programming will be studied as it relates to the specific examples being developed. The content and role of computer literacy units at this level will be presented. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors.

Prerequisite: Permission of the graduate advisor.

Y 1701 513 COMPUTER SCIENCE CONCEPTS FOR 3 **HIGH SCHOOL TEACHERS**

This course is specifically designed to help high school mathematics teachers prepare to use the microcomputer as a tool in their classrooms. Topics include an introduction to computer literacy, elements of BASIC programming, the evaluation of commercial programs, the appropriate use of these programs and a survey of relevant professional literature. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors.

Prerequisite: Permission of the graduate advisor.

Y 1701 520 SET THEORY**3**

Historical development, paradoxes, ordered sets, Schroder-Bernstein Theorem, Axiom of Choice, transfinite induction, cardinal and ordinal numbers.

Prerequisite: Y 1701 222.

Y 1701 521, 522 REAL VARIABLES I, II**3 each**

Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP, metric, normed vector, Banach and Hilbert spaces. The sequences 521, 522, and 525, 526 are usually offered in alternate years.

Prerequisite: Y 1701 426 for 521; Y 1701 521 for 522.

Y 1701 525, 526 COMPLEX VARIABLES I, II**3 each**

Integration and differentiation in the complex domain, Cauchy's Theorem and integral formula, Laurent expansion, residues, elements of conformal mapping, series and product representations. The sequences 525, 526, and 521, 522 are usually offered in alternate years.

Prerequisite: Y 1701 426 for 525; Y 1701 525 for 526.

Y 1701 531, 532 ABSTRACT ALGEBRA I, II**3 each**

Basic algebraic structures including groups, rings, fields, modules and lattices. The sequences 531, 532 and 535, 536 are usually offered in alternate years.

Prerequisite: Y 1701 431 for 531; Y 1701 531 for 532.

Y 1701 535, 536 LINEAR ALGEBRA I, II**3 each**

Vector spaces and linear transformations, including inner products, matrix representations, binary and quadratic forms, eigenvectors, canonical forms, and functions of matrices. The sequences 535, 536, and 531, 532 are usually offered in alternate years.

Prerequisite: Y 1701 335 for 535, Y 1701 535 for 536.

Y 1701 537 MATHEMATICAL LOGIC**3**

Propositional and predicate calculus, model theory, Gödel's completeness theorems and decidability.

Prerequisite: Y 1701 425.

Y 1701 540 PROBABILITY**3**

Sample spaces and events, combinatorial analysis, conditional probability and stochastic independence, random variables and probability distributions, expected value and variance, probability generating functions, continuous random variables.

Prerequisite: Y 1701 340.

Y 1701 541 APPLIED STATISTICS**3**

Review of estimation and hypothesis testing for one sample and two sample problems; introduction to non-parametric statistics, and linear regression; fundamental principles of design, completely randomized design, randomized block design, latin square, and 2 factor designs.

Prerequisite: Y 1701 440 or 443.

Y 1701 542 INTRODUCTION TO STOCHASTIC PROCESSES 3

Generating functions, convolutions, recurrent events, random walk models, gambler's ruin problems, Markov chains and processes, time dependent stochastic processes, queuing theory and epidemic models.

Prerequisite: Y 1701 540.

Y 1701 543 STATISTICAL THEORY 3

Review of the normal, gamma and Chi-square distributions; sampling theory of the 't', and 'F' distributions, point estimation of one parameter, method of moments, minimum variance and unbiased estimators, maximum likelihood and interval estimation, testing hypotheses, Neyman-Pearson Lemma, likelihood ratio tests, power, bivariate normal distribution.

Prerequisite: Y 1701 440 or 443.

Y 1701 544 STATISTICAL COMPUTING 3

Computer systems for data analysis and data graphics, and intermediate level statistical methodology are investigated. Several statistical computing packages are utilized and evaluated.

Prerequisites: Y 1701 541 or 548, and Y 0701 183.

Y 1701 545 MULTIVARIATE ANALYSIS 3

Analysis of multiple response variables simultaneously; covariance and the multivariate normal distribution; MANOVA discriminant functions principle components and canonical correlations.

Prerequisites: Y 1701 541, 548.

Y 1701 546 NON-PARAMETRIC STATISTICS 3

Selected distribution-free tests and estimation techniques including sign, Kolmogorov-Smirnov, Wilcoxon signed rank, Mann-Whitney, Chi-square, rank correlation, Kendall's Tau, Kruskal-Wallis, Friedman, McNemar, and others.

Prerequisite: Y 1701 440.

Y 1701 547 DESIGN & ANALYSIS OF EXPERIMENTS 3

Fundamental principles of design; fixed, random and mixed models; designs with restricted randomization; split plot design; factorial experiments; confounding; fractional replication; experimental and sampling errors.

Prerequisites: Y 1701 541 or 548.

Y 1701 548 APPLIED REGRESSION ANALYSIS 3

Fitting equations to data; matrices, linear regression; correlation; analysis of residuals; multiple regression, polynomial regression; partial correlation; stepwise regression; regression and model building; regression applied to analysis of variance problems; introduction to nonlinear regression.

Prerequisite: Y 1701 440 or 443.

Y 1701 549 SAMPLING TECHNIQUES 3

Sampling and survey methodology; basic sampling theory; simple, stratified, random, cluster, systematic and area sampling. Sampling errors and estimation procedures.

Prerequisite: Y 1701 440 or 443.

Y 1701 551 TOPOLOGY**3**

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities, metrizability, introductory algebraic topology, homology groups and homotopy.

Prerequisite: Y 1701 425.

Y 1701 554 PROJECTIVE GEOMETRY**3**

Projective planes and spaces are studied by synthetic and analytic approaches. Topics covered include the theorems of Desargues and Pappus, harmonic sequences, projectivities, coordinatization, finite planes, and conics.

Prerequisite: Y 1701 335.

Y 1701 555 DIFFERENTIAL GEOMETRY**3**

Application of vectors to the study of classical three-dimensional geometry. Topics include: plane and space curves, first and second fundamental forms, lines of curvature, asymptotic lines, geodesics.

Prerequisite: Y 1701 222.

Y 1701 560 NUMERICAL ANALYSIS**3**

Error analysis, interpolation and approximation theory, numerical solution of linear and nonlinear equations, numerical differentiation and integration, numerical solution of differential equations.

Prerequisites: Y 0701 507, Y 1701 335, 425.

Y 1701 564 ORDINARY DIFFERENTIAL EQUATION**3**

Linear and nonlinear equations, Green's functions, power series solutions, autonomous systems, existence and uniqueness, singularities, Sturm-Liouville systems.

Prerequisites: Y 1701 335, 420, 425.

Y 1701 566 PARTIAL DIFFERENTIAL EQUATIONS**3**

First order equations, separation of variables, series solutions, hyperbolic, parabolic and elliptic equations, characteristics, transform methods.

Prerequisites: Y 1701 335, 420, 426.

Y 1701 568 APPLIED MATHEMATICS I: CONTINUOUS**3**

Formulation, manipulation and evaluation of mathematical models of continuous systems. Topics selected from: conservation principles and the classical equations of mathematical physics, applications of the qualitative and quantitative theory of ordinary and partial differential equations, optimization, calculus of variations, stability theory, stochastic models.

Prerequisites: Y 1701 335, 340, 420, 425.

Y 1701 569 APPLIED MATHEMATICS II: DISCRETE**3**

Introduction to the basic ideas of discrete mathematics and its applications. Counting principles, permutations, combinations, algorithms, complexity, graphs, trees, searching and sorting, recurrence relations, generating functions, inclusion-exclusion, the pigeonhole principle, chromatic number, eulerian chains and paths, hamiltonian chains and paths, flows in networks, finite Markov chains.

Prerequisites: Y 1701 335, 340, 425.

Y 1701 570 ADMINISTRATION AND SUPERVISION OF MATHEMATICS 3

Problems of organization, administration and supervision in the mathematics program of the school. Functions, duties and qualifications of the supervisor investigated. Current problems and research findings.

Y 1701 571 CURRICULUM CONSTRUCTION IN MATHEMATICS 3

Contemporary proposals for the mathematics of grades K through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

Y 1701 572 TEACHING OF GENERAL MATH 3

Mathematics programs for the non-college bound high school student. Investigation of contemporary literature. Basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

Y 1701 573 MATHEMATICS MATERIALS FOR THE TEACHER OF MATHEMATICS 3

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, aids, and models and to material for the mathematics laboratory and club activities.

Y 1701 574 PROBLEM ANALYSIS IN SECONDARY MATHEMATICS 3

Psychology and techniques of problem-solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine problems from high school mathematics. Problem formation and solution. Prerequisite: Y 1701 222.

Y 1701 575 SELECTED TOPICS IN MATHEMATICS 3

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics selected to give the teacher a professionalized subject matter viewpoint of algebra, geometry, number theory, real and complex analysis, linear programming, game theory, probability and statistics. Prerequisite: Y 1701 222.

Y 1701 576 RESEARCH SEMINAR IN MATH EDUCATION 3

Designed for matriculated graduate students in the mathematics education program. The students survey and analyze recent research projects. Prerequisite: Graduate advisor's permission.

Y 1701 577 MATHEMATICS EDUCATION IN THE ELEMENTARY SCHOOL 3

The contemporary mathematics curriculum of the elementary and middle school. Includes the role of behavioral objectives and learning theory in curriculum development, teacher training and related research findings.

Y 1701 578 **DIAGNOSTIC AND PRESCRIPTIVE TECHNIQUES** **3**
FOR TEACHING MATHEMATICS BASIC SKILLS

An investigation of the role of basic skills instruction in all areas of the mathematics curriculum.

Y 1701 579 **APPLIED MATHEMATICS FOR THE SECONDARY** **3**
SCHOOLS

Applications of secondary and undergraduate mathematics and techniques for including these applications in the secondary curricula.

Prerequisites: More than one year of teaching experience, Y 1701 335, 340.

Y 1701 595 **SEMINARS IN MATHEMATICS** **1-4**

Guided study of selected topics in major field of interest.

Prerequisite: Instructor's permission.

MUSIC

Chairperson: Dr. Ting Ho

Graduate Advisor: Dr. Donald Mintz, Dr. Jack Sacher

Graduate study in Music offers three concentrations leading to the degree of Master of Arts: Performance, Theory/Composition and Music Education. Performance stresses applied music skills; Theory/Composition stresses creativity and the structure of music; Music Education stresses philosophical and practical approaches to the work of the music specialist in the American public school.

Although the study of music theory and of applied music is required of all graduate students regardless of the concentration, each concentration provides for individualized course election in accordance with the background, needs and interests of the student.

Registration in applied music and theory is dependent on the placement examination administered by the department; students may not register for work in these areas until the examination has been taken (see below under Admission Requirements).

ADMISSION REQUIREMENTS

In addition to the general College admission requirements stated in this bulletin (see Admission to Graduate Study), all students must present an undergraduate major in music with at least 40 semester hours of work in theory, music history and private study in a performance medium. Courses in music education may be included as part of this background.

Matriculation as a graduate music major requires taking the Music Department's Audition and Placement Examination. Information regarding the nature of this examination and the scheduling of it must be specifically requested from the Graduate Admissions Office by the student. Applications to take the examination should be sent to "Chair, Auditions, Department of Music," no less than two weeks prior to the examination. Auditions take place the first or second Saturday of December, March, April and June.

All applicants must demonstrate familiarity with musical vocabulary and literature and proficiency in the following: performing primary, sight singing, aural and written theory, score analysis, listening analysis, and piano secondary skills (keyboard harmony, sight-reading of chorale literature and the like). Audition literature in the primary medium must represent significant solo material from a variety of eras, one of which must be contemporary. Applicants majoring in orchestral instruments must also present significant passages from orchestral literature.

Applicants to the theory/composition concentration must submit a portfolio of compositions and/or analytical studies for consideration by the theory faculty.

Applicants to the performance concentration must present an undergraduate major in the primary medium (including at least six semesters of study plus a graduation recital) or professional experience satisfactory to the Music Department.

Applied Music

Special regulations and procedures for the study of applied music are available from the graduate advisor. Tuition for the study of applied music is based on a special fee structure; information is available from the Registrar or the Department of Music.

Applied music may be taken for academic credit only after the student has completed the Department Audition and Placement Examination. Applied music may be studied only with MSC faculty or with teachers approved by the department. Every course number in the area of applied music (prefix 1004) requires the written permission of the graduate advisor, the instructor and the department chairperson. These signatures must be obtained by July 1 (for those desiring study in the fall) or by December 1 (for those studying in the spring). Lessons are normally not given in the summer. A signature of approval is good for only 1 semester.

No more than 2 semester hours of credit may be awarded for work in a secondary medium.

Majors in the Performance (Applied Music) concentration are expected to take jury examinations in each semester of applied music study in which a full recital is not given. The grade for the last semester of the sequence will not be given until all recital requirements are completed.

Examinations

All candidates for the degree of Master of Arts in Music must pass the department's Comprehensive Examination, given each year in October and March. Applications for this examination must be made in writing to the

graduate advisor by September 1 for the October examination and by February 1 for the March examination.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MUSIC

Note: The 32 semester hours noted for each concentration is a minimum. Undergraduate transcripts and audition results may require either additional undergraduate work before graduate courses are begun or graduate work in excess of the minimum 32 semester hours, or both.

Concentration in Performance

	Semester Hours
I. Required courses	18
A. Private lessons in a performing medium	12
B. Theory sequence 1016 511/512	6
II. Electives in Music History or Music Literature	8
III. Electives in Music	3
IV. Humanities electives (art, language, literature, history, philosophy; may be at 400 level)	3
V. Two recitals	0
A. Each to include at least 60 minutes of music exclusive of intermissions or pauses.	
B. One must be public; the other may be public or before a faculty jury. Procedures are available from the Graduate Advisor for Music.	
VI. Comprehensive examination	0
(Voice majors and accompanying majors will be given language tests as well. Details are available from the Graduate Advisor.)	

Note: Performance majors wishing to emphasize accompanying must arrange this with the graduate advisor.

Concentration in Theory/Composition

I. Required courses	23
A. Applied Music, selected with approvals of instructor, Graduate Advisor and Department Chairperson	
B. Theory sequence 1016 511, 512	6
C. Private study in composition (may be either creative or analytical work) 1016 518, 519	6
D. Seminar or independent study in Music History and research	3
E. Theory and composition	4
II. Humanities electives (art, language, literature, history, philosophy; may be at 400 level)	3
III. Music electives	8
IV. Composition and public performance of one of the larger forms for orchestra, vocal ensemble or chamber ensemble	0
V. Comprehensive examination	0

Concentration in Music Education

I.	Required courses	16
A.	Applied Music, selected with approval of instructor, Graduate Advisor and Department Chairperson from 1004 500, 501, 502, 503, or master classes	4
B.	Education or Psychology (may be at 400 level)	3
C.	Theory sequence 1016 511, 512	6
D.	Seminar in Music Education 0832 603	3
II.	Music Education	6
III.	Electives in Music	3
IV.	Humanities electives (art, theater, literature, history, philosophy; may be 400 level)	6
V.	Music electives	4
VI.	Comprehensive examination	0

Certification

While some of the graduate courses listed in this catalog may be applied to certification as a teacher in the New Jersey public schools or as a Registered Music Therapist, the bulk of courses required by these certifications are available only at the undergraduate level. Certification is quite separate from a Master of Arts degree. Those interested should contact the Department of Music for an interview with the appropriate advisor prior to beginning the admission process.

MUSIC

Course Descriptions

Semester Hours

H 0832 500	WORKSHOP IN MUSIC EDUCATION	1-3
Changing conditions in the schools and new methods and materials for in-service and pre-service teachers. Lectures, demonstrations. Literature and materials selected according to workshop focus.		
Prerequisite: Permission of graduate advisor or coordinator of music education.		
H 0832 591	MUSIC LEARNING THEORY: SKILL, CONTENT AND SEQUENCE	3
Study of sequential steps in learning musical concepts and skills by examination of research in musical content and its perception.		
H 0832 520	GENERAL MUSIC IN SECONDARY SCHOOL	3
Examination and practicum of methods, materials and philosophies of non-performance courses in the junior and senior high school.		
H 0832 522	PEDAGOGY OF THE PIANO	2
Principles, materials and techniques for teaching piano to individuals or groups, in school or studio situations.		

- H 0832 525 PEDAGOGY OF STRINGED INSTRUMENTS 2**
Principles, materials, and techniques for teaching stringed instruments to individuals or groups, in school or studio situation.
- H 0832 527 PEDAGOGY OF THE VOICE 2**
Principles, materials, and techniques for teaching voice to individuals or groups, in school or studio situation.
- H 0832 578 KODÁLY SYSTEM IN MUSIC EDUCATION 3**
Procedures for using Kodály materials and techniques in teaching music reading and comprehension.
Prerequisite: Majors only.
- H 0832 579 PROBLEMS AND MATERIALS OF INSTRUMENTAL MUSIC 2**
Evaluation of teaching experiences; problems of organizing instrumental music in school; literature for orchestra, band and small ensemble at various levels.
- H 0832 580 PROBLEMS AND MATERIALS OF CHORAL MUSIC 2**
Survey of choral repertoire for accompanied and unaccompanied groups, for changing, unchanged and mixed voices. Evaluating materials; building programs. Class constitutes a laboratory chorus.
- H 0832 581 ORFF WORKSHOP I-CONCEPTS AND SKILLS 1-3**
Study of basic philosophy of the Orff Schulwerk through movement, melodic and rhythmic training, improvisation and the use of relevant instruments and materials.
- H 0832 582 ORFF WORKSHOP II-PEDAGOGY AND PRACTICES 1-3**
Refinement of skills in the use of Orff concepts, materials and techniques; practicum in the Orff pedagogy as applicable to American children.
Prerequisite: H 0832 581 or instructor's permission.
- H 0832 583 ORFF WORKSHOP III-ADVANCED PRINCIPLES AND TECHNIQUES 1-3**
Comprehensive study of the scope of Orff pedagogy and mastery of techniques necessary for the development of music curricula and materials based on employing the Orff approach.
Prerequisite: H 0832 582 or instructor's permission.
- H 0832 599 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4**
Regularly listed courses pursued in greater depth, by arrangement with graduate advisor for music prior to registration. May be elected more than once during the program, but only one course per semester.
Prerequisite: Instructor's permission.

H 0832 600 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity independent of any course structure. The student's area of study and a course advisor must be arranged prior to the semester in which the student registers for independent study. Work for this course may be spread over two semesters in which the work will be completed.

Prerequisite: Graduate advisor's written permission.

H 0832 603 SEMINAR IN MUSIC EDUCATION 3

Philosophies of music education and their application to the classroom. Investigation and application of techniques of research as they apply to music education.

H 0832 604 SUPERVISION AND ADMINISTRATION OF SCHOOL MUSIC PROGRAMS 3

Functions and responsibilities of school music administration based on philosophies of music education, leadership styles and techniques of management and personnel relationships.

H 1004 500, 501, 502, 503 APPLIED MUSIC I, II, III, IV 1 each

Fifteen half-hour lessons per semester, private instruction. Admission with permission of graduate advisor. Music fee.

H 1004 504, 505, 506, 507 APPLIED MUSIC V, VI, VII, VIII 2 each

Fifteen one-hour lessons per semester, private instruction. Admission with permission of graduate advisor. Music fee.

H 1004 508, 509, 510, 511 APPLIED MUSIC IX, X, XI, XII 3 each

Fifteen one-hour lessons per semester, private instruction. Admission with permission of graduate advisor. Music fee.

H 1004 512, 513, 514 APPLIED MUSIC XIII, XIV, XV 4 each

Fifteen one-hour lessons per semester, private instruction. Admission with permission of graduate advisor. Music fee.

H 1004 515, 516 APPLIED MUSIC XVI, XVII 6 each

Fifteen one-hour lessons per semester, private instruction. Recital required. Admission with permission of graduate advisor. Music fee.

H 1004 533, 534 ENSEMBLE: OPERA WORKSHOP I, II 2 each

Rehearsal and performance of operatic repertoire in English or English translation. Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered. Open to pianists and singers.

H 1004 537 ENSEMBLE: ORCHESTRA I 2

Rehearsal and performance of orchestral repertoire. Admission by audition only.

H 1004 538 ENSEMBLE: ORCHESTRA II 2

A second semester of music 537.

H 1004 550, 551, 552, 553 CHAMBER ENSEMBLE 1 each

PERFORMANCE I, II, III, IV

Participation in instrumental or vocal ensembles. Pre-registration may be required. One ensemble per course number. May be repeated for credit.

Prerequisite: Departmental permission.

H 1004 599 INDEPENDENT STUDY IN PERFORMANCE 1-4

Regularly listed course work pursued in great depth, by permission of graduate advisor for music prior to registration. May be elected more than once during the program but only one course per semester.

Prerequisites: Permission of instructor.

H 1004 600 INDEPENDENT STUDY IN PERFORMANCE 4

Individual pursuit of a problem of performance or an aspect of musical repertoire, culminating in a performance and appropriate written work. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed. Permission of instructor.

H 1006 500, 501 SELECTED TOPIC IN MUSIC I, II 1.5 each

Intensive study of a single composer or limited array of works; may be taken a second time; 7 week course.

H 1006 501 SELECTED TOPIC IN MUSIC II 1.5

Intensive study of a single composer or limited array of works; may be taken a second time; 7 week course.

H 1006 505 PERFORMANCE PRACTICE IN THE BAROQUE ERA 3

Study of problems of esthetics, notation, instrumentation, ornamentation and interpretation in vocal and instrumental music from the time of Caccini and Monteverdi through that of J. S. Bach and Handel.

H 1006 506 PERFORMANCE PRACTICE IN THE CLASSICAL ERA 3

Study of problems of esthetics, notation, instrumentation, ornamentation and interpretation in vocal and instrumental music from the second decade of the eighteenth century through the works of Beethoven.

H 1006 549 MODERN MUSIC 3

Study of musical styles of the 20th century: historical sources, major composers, and recent trends.

H 1006 550 CHAMBER MUSIC 3

Survey of vocal and instrumental music composed for one to ten performers, one per part, from the renaissance through the modern era. Analysis of both compositional style and nature of chamber genres.

H 1006 551 THE LITERATURE OF ORCHESTRA 3

Historical survey of such genres as the suite, overture, concerto, symphony and tone poem from the development of orchestral playing in the 17th century to the present.

H 1006 552 ETHNOLOGICAL APPROACH TO MUSIC 3
Non-western music; ethnic roots and influences, theory, media and performance practices. Folk and professional idioms of the Far East, Near East, Africa, Europe and the Americas. Study for non-majors will emphasize musical experience and social-cultural background, while music majors will also pursue a more technical approach.

H 1006 553 JAZZ 3
Jazz as an art form, its impact on music and other contemporary arts; the sociological impact in American and world culture. Examination of specific performance techniques.

H 1006 554 DEVELOPMENT OF THE OPERA I 3
Operas of the baroque and classical eras from Monteverdi through Beethoven; evolution of style, changing aesthetics, characterization and plot development and the cultural environment within which these developments have taken place.

H 1006 555 DEVELOPMENT OF THE OPERA II 3
Continuation of H 1006 554, examining operatic styles and representative works of the romantic and modern eras.

H 1006 599 INDEPENDENT STUDY-MUSIC HISTORY AND LITERATURE 1-4

The undertaking of course work in one of the regularly listed catalogue courses of the department of Music (but not to include Applied Music) in depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the graduate advisor for music prior to registration. Independent study may be elected more than once during the graduate program, but may apply to only one course per semester.

H 1006 600 INDEPENDENT STUDY-MUSIC HISTORY AND LITERATURE 1-4

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity independent of any course structure. The student's area of study and a course advisor must be arranged prior to the semester in which the student registers for independent study. Work for this course may be spread over two semesters in which the work will be completed.

Prerequisite: Graduate advisor's written permission.

H 1006 604 SEMINAR IN HISTORICAL RESEARCH 3
Study of music bibliography, research method and critical analysis. Open to fully matriculated students majoring in music.

H 1006 605, 606 SEMINAR IN HISTORICAL AND THEATRICAL STUDIES I, II 3 each

Research and discussion of selected topics in the literature of music focusing on stylistic and analytical problems.

H 1016 511 THEORETICAL AND AURAL SKILLS IN MUSIC I 3
Principles and practices of music construction, aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music as a base, with specific techniques of pitch and rhythm approached from harmonic and contrapuntal standpoints. Primitive and simple folk idioms, modal counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental idioms tonal counterpoint in two parts and free composition. Schenker analysis. Open to music majors only.

H 1016 512 THEORETICAL AND AURAL SKILLS IN MUSIC II 3
Continuation of H 1016 511. Complex non-western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.
Prerequisite: H 1016 511 or instructor's permission.

H 1016 516 ADVANCED INSTRUMENTATION 3
Workshop course: tutti instrumentation in orchestra and band; scoring for small ensembles; instruments, instrumental families and their possibilities and best uses. Direct instrumental setting of songs, hymns, etc., without the writing of a score. Elements of band military march construction and scoring. Performance of student instrumentations when possible.
Prerequisite: H 1016 511 or equivalent course.

H 1016 518, 519 PRIVATE STUDY IN COMPOSITION I, II 3 each
Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester. Admission by permission only. Music fee.

H 1016 520, 521 PRIVATE STUDY IN COMPOSITION 3 each
III, IV

Advanced work in various genres and forms of instrumental and/or vocal music.

Prerequisites: Departmental permission; Music fee.

H 1016 599 INDEPENDENT STUDY IN THEORY/ 1-4
COMPOSITION

Individual work performed in connection with a regularly scheduled course but in greater depth than normally required by that course.

Prerequisite: Instructor's permission.

H 1016 600 INDEPENDENT STUDY IN THEORY/ 1-4
COMPOSITION

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed. Written permission required.

H 1095 500 PSYCHOLOGY OF MUSIC 3
Integration of psychological foundations of music with emphasis on their relationships to music therapy. Study of theories of psychotherapy, emotional content of music, musical meaning, testing for musical abilities, music learning.

Prerequisites: Two undergraduate music courses and one course in psychology.

H 1095 502 THE USE OF MUSIC IN SPECIAL EDUCATION 3

Musical development relative to child development. Music activity adapted for varying handicapped child populations.

Prerequisites: Undergraduate developmental or child psychology of the handicapped or related course, experience with handicapped children and proficiency in music.

H 1095 599 INDEPENDENT STUDY IN MUSIC THERAPY 1-3

Regularly listed courses pursued in greater depth, by arrangement with the instructor for music prior to registration. May be elected more than once during the program, but only one course per semester. Written permission required.

H 1095 600 INDEPENDENT STUDY IN MUSIC THERAPY 1-4

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed. Written permission required.

NEW JERSEY SCHOOL OF CONSERVATION

Director: Dr. John J. Kirk

The New Jersey School of Conservation is the Environmental Education Field Campus of Montclair State College and is the largest such facility in the western hemisphere. The School of Conservation is located fifty-seven miles from the main campus on a 240 acre tract located in the center of Stokes State Forest in Sussex County. Administratively, it is part of the School of Professional Studies.

The programs at the School of Conservation are designed to provide the students with a greater understanding and appreciation of the role natural areas play as part of a life support system. The resident programs provide environmental field experiences in the humanities, social studies, outdoor pursuits, and the natural physical sciences. Each academic year the school provides resident environmental education programs for over 9000 elementary/secondary school students, and 2000 teachers from 160 schools. There are also several field courses provided for graduate students. In addition, there are four weekend workshops held each academic year designed to train classroom teachers and youth leaders in environmental education curriculum development and field techniques for programs in environmental education. The workshops are held in September, February, April and June.

Each workshop carries one semester hour of undergraduate or graduate credit. During the summer, the School offers several ten-day courses at the graduate level for teachers pursuing advanced degrees in environmental education and related fields.

Course Descriptions	Semester Hours
1 0843 460 PRACTICUM IN ENVIRONMENTAL EDUCATION	3
<p>This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching units, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion.</p>	
1 0843 462 ADMINISTRATION AND SUPERVISION OF ENVIRONMENTAL FIELD STUDY	3
<p>This course is designed to provide practical experience in the solution of problems in planning, supervising, and administering a field experience in Environmental Education. Among the phases considered are those of a historical perspective in the evolution and development of the movement combined with current practices. Discussions will include educational philosophy, selection and supervision of personnel, development and implementation of program activities, purchasing of equipment, organization of support staff, and financial management.</p>	
1 0843 495 WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS	1
<p>To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.</p>	
1 0843 496 FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE	1
<p>Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.</p>	
1 0843 497 FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION	1
<p>Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.</p>	

1 0843 499 ENVIRONMENTAL IMPACT OF RECREATION ON NATURAL AREAS 3

Students will examine the impact of recreation on natural areas in four of New Jersey's major ecosystems: upland forest, pinelands, salt marsh and barrier beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventions to develop "Recreation Impact Statements." First-hand knowledge of the four ecosystems will be gained by camping in or near each area.

1 0843 500 CURRICULUM DEVELOPMENT IN ENVIRONMENTAL EDUCATION 3

The historical, philosophical and conceptual aspects of developing a K-12 environmental education curriculum. The focus is on the four major curriculum areas: humanities, social studies, science and outdoor pursuits, with proposed activities for the classroom, school grounds, community and natural areas, intended to enhance the students' awareness of environmental problems and their possible solutions.

1 0843 501 OUTDOOR TEACHING SITES FOR ENVIRONMENTAL EDUCATION 3

This field-oriented course will include a working definition of outdoor environmental teaching sites as they relate to current developments in environmental education. Also incorporated, through lecture, discussion, and field activities will be pertinent information on the philosophy, design, construction, and use of outdoor environmental teaching sites, with special emphasis on sites which can be developed on land areas adjacent to schools.

1 0843 502 AMERICAN HERITAGE SKILLS 3

This course will focus on the home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas. The colonial living skills will be integrated into a general overview of the two hundred year time period under consideration, rather than as isolated elements.

1 0843 505 SOCIETY AND THE NATURAL ENVIRONMENT 3

An overview of the principles of ecological systems as they relate to the biosphere and an attempt to show cause and effect relationships between these ecological principles and the action of human societies which have led to the present environmental crisis.

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Chairperson: Dr. Jerry G. Dickason
Graduate Advisor: Dr. Ree K. Arnold

Montclair State College's graduate program in Physical Education provides students with the opportunity to explore areas of interest and expand their knowledge through study in an area of specialization. Students are given opportunities to identify and trace relationships between the past and present, as well as assess present and future trends in Physical Education.

The Master of Arts degree with a major in Physical Education has been offered at Montclair State College since 1964. The high quality of the program is evidenced by the position of leadership in the field of Physical Education held by many of the graduates of Montclair State.

Special facilities for research in motor learning, biomechanics and exercise physiology are offered in the Human Performance Laboratory. These facilities are available for classwork and independent research by students and faculty.

The Physical Education, Recreation and Leisure Studies Department is a member of the Panzer School Council and is administered by the School of Professional Studies.

ADMISSION REQUIREMENTS

Applicants must have a bachelor's degree with a major in Physical Education from an accredited college or university. Undergraduate records and Graduate Record Examination Aptitude Test Scores must indicate a high degree of probable success in the program. Additional course work may be required if there are deficiencies in undergraduate preparation.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PHYSICAL EDUCATION

	Semester Hours
I. Required Courses*	
0835 575 Philosophical and Sociological Foundations of Sport and Physical Education	3
0835 579 Advanced Measurement and Evaluation in Physical Education	3
0835 503 Research Methods in Physical Education	3

0835 603 Research Project 4
 (Full year course, register in Fall only)

*Course 579 *must* be completed before 503 and both of the above courses *must* be completed *before* 603. In special cases 579 and 503 may be taken concurrently with permission of the instructor of 503.

II. Areas of Specialization

In addition to the required courses above, students are required to complete 15 semester hours in one of the following areas of specialization.

A. Teaching and Administration of Physical Education

1. Required for both General Programs and Programs for the Disabled:

*0835 577 Administration and Supervision of
 Physical Education 3
 *0835 560 Physical Education Programs
 in a School Setting 3

*Required

1. Specialization Courses

a. General Programs

*0835 550 Literature and Trends in Physical
 Education 3
 **0835 492 Selected Topics in Physical
 Education 3
 0835 516 Comparative Physical Education 3
 0835 556 Advanced Motor Learning 3

b. Programs for the Disabled

*0835 530 Individualized Programs in Physical
 Education for the Handicapped 3
 0835 531 Practicum in Physical Education
 for the Handicapped 3
 0835 553 Neurological Approach to Motor
 Learning and Performance 3
 0835 557 Perceptual Motor Development
 in Physical Education 3

B. Coaching and Sports Administration

*0835 508 Administration and Supervision of
 Athletics and Coaching 3
 *0835 554 Orientation in Sports Medicine 3
 *0835 552 Seminar in Current Problems
 in Athletics 3
 *0835 555 Biomechanical Analysis of Movement and
 Sports Skills 3
 0835 556 Psychological Basis of Motor Learning and
 Performance 3
 0835 559 Applied Sport Psychology Performance 3
 **0835 492 Selected Topics in Physical Education 3

*Required

**When topic is appropriate to specialization and with advisor's approval.

III. Free Electives

Six semester hours may be selected from the Physical Education offerings or from any discipline outside the field of physical education, provided courses prerequisites are satisfied.

IV. Written Comprehensive Examination

All students are required to write a comprehensive examination during the last semester of their work. The examination is given in March and October. Application forms are available in the Graduate Office and must be filed six weeks before the examination in the office of the Graduate Advisor in Physical Education.

The examination consists of three parts covering research skills, knowledge in the area of specialization and general aspects of Physical Education.

Minimum: 34 semester hours

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Course Descriptions

Semester Hours

8 0835 503 RESEARCH METHODS IN PHYSICAL EDUCATION 3

An introduction to the theory and methods of historical, descriptive and experimental methods of research in physical education. Topics include the nature of research, interpretation of data, design of research and formulation of a research proposal.

Prerequisite: 8 0835 579 Advanced Measurement and Evaluation in Physical Education

8 0835 508 ADMINISTRATION AND SUPERVISION OF 3 ATHLETICS AND COACHING

Underlying principles and desirable practices from the point of view of the administrator and supervisor, and of the person supervised and subjected to administrative policies. Interviewing, observation, conducting conferences and administrative considerations.

8 0835 516 COMPARATIVE PHYSICAL EDUCATION 3

A comparative study of physical education to provide insight and greater understanding of programs in other countries. Such factors as the role of physical education, the similarities and differences in teacher preparation and the school curriculum between selected countries will be examined and compared in detail.

8 0835 530 INDIVIDUALIZED PROGRAMS IN P.E. FOR THE HANDICAPPED 3

This course will offer a pragmatic approach to the planning and implementation of programs in appropriate environments to meet specific needs of handicapped persons.

8 0835 531 PRACTICUM IN PHYSICAL EDUCATION FOR THE HANDICAPPED 3

Practical experience with mentally retarded, emotionally disturbed, physically handicapped or sensory handicapped persons. Requirement is for 120 hours (including conference time).

Prerequisite: 8 0835 557 and instructor's permission.

8 0835 550 SURVEY OF LITERATURE AND TRENDS IN PHYSICAL EDUCATION 3

Comprehensive survey of books, periodicals and other teaching materials in the field of physical education; outstanding authors and current leaders in physical education are studied.

8 0835 552 SEMINAR IN CURRENT PROBLEMS IN ATHLETICS (MEN AND WOMEN) 3

The organization, planning and administration of intramural and inter-scholastic sports programs for men and women. Program development, scheduling, promotion and conduct of the program and personnel selection. Other persistent problems identified by the students will be discussed as will trends in such areas as sports media, coaching and officiating.

8 0835 553 A NEUROLOGICAL APPROACH TO MOTOR LEARNING AND PERFORMANCE 3

The psychology of motor behavior, a neuropsychological approach, integrating neuropsychological and behavioral information as a beginning toward understanding motor behavior.

8 0835 554 ORIENTATION IN SPORTS MEDICINE 3

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries; current developments in the field; new conditioning concepts and activities for both the athlete and non-athlete.

Prerequisites: Courses in kinesiology, physiology of exercise and prevention and care of athletic injuries, or instructor's permission.

8 0835 555 BIOMECHANICAL ANALYSIS OF MOVEMENT AND SPORT SKILLS 3

The examination of internal and external forces that act upon a human body and the effects produced by these forces during the performance of movement and sport skills. Application of techniques for measuring and diagrammatically representing these forces.

8 0835 556 ADVANCED MOTOR LEARNING 3

Psychological principles and research related to physical activity and educational program situations. Continued research and psychological evidence utilized to improve physical education methodology.

8 0835 557 PERCEPTUAL MOTOR DEVELOPMENT IN PHYSICAL EDUCATION 3

Current theories concerning the interrelationships of perceptual development and sensory-motor activity. Implications for school physical education programs.

8 0835 559 APPLIED SPORT PSYCHOLOGY 3

This course provides an in-depth analysis of the theories and techniques of sport psychology. Student will learn how to apply these skills to the teaching and coaching situations in order to optimize the performance of students and athletes.

8 0835 560 PHYSICAL EDUCATION PROGRAMS IN A SCHOOL SETTING 3

Current trends in activities programming and scheduling in physical education for grades K-12. Opportunities provided for students to work in their particular area of programming interest.

Prerequisite: A methods course in physical education.

8 0835 575 PHILOSOPHICAL AND SOCIOLOGICAL FOUNDATIONS OF SPORT AND PHYSICAL EDUCATION 3

The historical development of modern physical education programs. The sociological factors affecting behavior in modern society applied to teaching and coaching situations.

Prerequisite: A course in the history and principles of physical education.

8 0835 577 ADMINISTRATION AND SUPERVISION IN PHYSICAL EDUCATION 3

The role and responsibilities of the administrator in physical education. Theories and techniques of administration and management. The nature, purposes and techniques of supervision of teachers.

8 0835 579 ADVANCED MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION 3

An overview of descriptive and inferential statistics, both parametric and nonparametric. Additional topics include analysis and evaluation of tests in physical education, grading procedures, and the construction and administration of a test battery.

8 0835 580 INDEPENDENT STUDY IN PHYSICAL EDUCATION 1-3

An experience in the pursuit of study of topics which may be outside the scope of regular curricular offerings or may be an extension of a course or courses. A student may complete a maximum of three semester hours credit in independent study. Completion and approval of independent study application form required prior to registration.

8 0835 603 RESEARCH PROJECT 4

Guidance is provided in developing and conducting a research project in physical education. Each student is required to conduct an investigation of a specific problem and to submit a written report of the completed project to the faculty of the department of physical education. Full year course. Register fall only.

Prerequisite: 8 0835 503.

RECREATION

Although there is no degree or certification program associated with recreation, the following graduate courses may be selected by students in other programs who have their advisor's prior approval.

8 2103 532 THERAPEUTIC RECREATION 3

The development, supervision and coordination of therapeutic recreation programs in various types of institutional and community settings.

Prerequisites: L 1220 581 or 586.

8 2103 551 PHILOSOPHY, TRENDS AND CURRENT PRACTICES 3 IN RECREATION AND LEISURE SERVICES

Presents a survey of the development of recreational philosophies and a study and evaluation of the modern philosophy in America. The organization of recreation in school and community, the importance of leadership, social and cultural implications, economic, governmental, and leisure time influences, and a study of current practices will be undertaken.

8 2103 563 URBAN PARK AND RECREATION MANAGEMENT 3

Administration and policies of park recreation agencies, including organizational structure, boards and commissions, executive leadership, decision making, personnel finance, public relations, office management, legal provisions, operational research, etc. Management procedures for metropolitan and regional parks including specialized facilities, e.g., golf courses, pools, ice rinks, etc.

PSYCHOLOGY

Chairperson: Dr. Roland Siiter

*Graduate Advisors: Dr. Walter Duryea, Dr. Moira LeMay,
Dr. Joan Silverstein*

There are two entirely separate Master of Arts degrees offered within this department. The MA in Psychology (with a track available in Industrial Psychology) is described immediately below. For the MA in Educational Psychology (tracks in Human Sexuality, and Special Education), see following pages.

MASTER OF ARTS DEGREE IN PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares the student for advanced studies in many psychological fields such as developmental, experimental, learning, personality and counseling, school, and social psychology.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Psychology Test of the Graduate Record Examination.
3. The Miller Analogies Test.
4. Approval by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

	Semester Hours
I. Required Courses	16
2001 510 Methods of Research	3
2001 520 Advanced Psychology I	3
2001 521 Advanced Psychology II	3
2001 550 Quantitative and Statistical Methods	3
2001 600 Thesis	4
II. Elective Courses	12
To be selected with the approval of the Graduate Advisor/Program Director.	
III. Free Electives	6
IV. Comprehensive Examination: written examination precedes acceptance of thesis outline and an oral examination at completion of thesis.	
V. Department Colloquium: presentation of proposed theses and current research. Graduate students and faculty invited.	

Minimum: 34 semester hours

CONCENTRATION IN INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Industrial/Organizational Psychology Program is designed to prepare persons for work in business and industry as professional specialists in the application of psychological knowledge and techniques to the functioning of individuals in organizations. The program draws from many areas of

psychology especially testing, statistics, experimental design, learning, motivation, and interpersonal relations.

REQUIREMENTS FOR THE INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY CONCENTRATION

	Semester Hours
I. Required Courses	15
2001 510 Research Methods in Psychology	3
2001 520 Advanced Psychology I	3
2001 550 Quantitative and Statistical Methods	3
2001 559 Seminar in Industrial/Organizational Psychology	3
2001 578 Psychological Tests and Measurements	3
II. Specialization	9
2001 554 Psychology of Business and Industry	3
2001 557 Theory and Application in Consumer Psychology	3
2001 558 Personnel Psychology	3
2001 570 Psychology of Human Performance	3
2001 571 The Psychology of Organizational Behavior	3
III. Thesis	4
2001 600 Thesis	4
IV. Electives: Psychology	Maximum of 6
2001 521 Advanced Psychology II	3
2001 552 General Social Psychology	3
2001 553 Urban Psychology	3
2001 563 Theories of Learning	3
2001 568 Psychology of Group Dynamics	3
2001 581 Motivation	3
2001 582 Behavior Modification	3
V. Electives: Other Departments	6
To be selected with the approval of the Graduate Advisor.	
Minimum: 34 semester hours with Thesis option or 36 semester hours without Thesis option.	

MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Moira LeMay

The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

	Semester Hours
I. Required Courses	15
2001 510 Research Methods in Psychology	3
2001 560 Advanced Educational Psychology	3
2001 561 Developmental Psychology	3
2001 578 Psychological Tests and Measurements	3
2001 660 Current Topics in Educational Psychology	3
II. Educational Foundations	6
2001 538 Ethnopsychology (also 2202 538)	3
2001 553 Urban Psychology	3
2008 579 Community Resources and Youth	3
2202 534 Anthropology and Education	3
2202 535 Ethnology	3
III. Specialization	6
2001 555 Psychological Aspects of Poverty	3
2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3
IV. Electives	6
To be selected with the approval of the Graduate Advisor/Program Director.	
V. Comprehensive Examination	
VI. Thesis (Elective)	4
Minimum: 33 semester hours	

CONCENTRATION IN HUMAN SEXUALITY

Graduate Advisor: Dr. Moira LeMay

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in Psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE CONCENTRATION IN HUMAN SEXUALITY

	Semester Hours
I. Required Courses	12
2001 510 Research Methods in Psychology	3
2001 560 Advanced Educational Psychology	3
2001 561 Developmental Psychology	3

2001 660	Current Topics in Educational Psychology	3
II.	Foundations	6
2001 446	Today's Woman	3
2202 535	Ethnology I	3
2001 538	Ethnopsychology	3
2001 552	General Social Psychology	3
2001 553	Urban Psychology	3
2208 579	Community Resources and Youth	3
III.	Specialization	15
	At least 6 semester hours chosen from the following:	
2001 542	Workshop in Psychology-Human Sexuality	3
2001 548	Sex Education in Communities and Agencies	3
2001 645	Sexual Function and Dysfunction	3
	and 9 additional semester hours chosen from the above and/or	
2001 567	Abnormal Psychology	3
2001 568	Psychology of Group Dynamics	3
2001 580	Personality	3
2001 593	Clinical Interviewing	3
IV.	Electives	3
0401 540	Comparative Human Anatomy	4
2001 573	Physiological Psychology	3
2001 578	Psychological Tests and Measurements	3
2208 559	Sociology of Deviance	3
2208 563	Self and Society	3
2208 573	The Family as an Institution	3
V.	Comprehensive Examination	

Minimum: 36 semester hours

INTERRELATED GRADUATE PROGRAM IN SPECIAL EDUCATION AND SPECIAL PUPIL SERVICES: TEACHER OF THE BEHAVIORALLY DISTURBED

Graduate Advisor: Dr. Walter R. Duryea

The course of study in the College's interdepartmental programs in Special Education prepares students to teach socially and emotionally maladjusted children. This concentration leads to New Jersey Certification in Teacher of the Handicapped.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology or equivalent.
2. The Advanced Psychology Test of the Graduate Record Examination is required of applicants who have an undergraduate Psychology major.

3. The Miller Analogies Test.
 4. Interview with and approval by the departmental committee.
 5. Teaching certification is not required but is desirable.
- Note:** Minimum residency of one year and one summer is required.

REQUIREMENTS FOR THE PROGRAM IN SPECIAL EDUCATION

	Semester Hours
I. Required Courses	12
2001 578 Psychological Tests and Measurements	3
Two of the following:	
0830 500 Nature of Reading	3
0830 511 Case Studies in Reading Difficulties	3
and either:	
2001 560 Advanced Educational Psychology or	3
2001 563 Theories of Learning	3
Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.	
II. Core Courses	8
Required:	
2001 561 Developmental Psychology	3
2001 565 Psychology and Education of Socially	3
and Emotionally Handicapped Children	3
2001 620 Orientation and Observation in Special	2
Education	
Electives approved by advisor may be taken in place of, or in addition to, required courses if equivalencies of the above are approved.	
III. Specialized Requirements	23
2001 540 Teaching and Remediation Techniques	3
2001 541 Adaptive Curriculum and Program Planning	3
2001 545 Seminar in Behavioral Disturbances of	
Children I	3
2001 546 Seminar in Behavioral Disturbances of	
Children II	3
2001 553 Urban Psychology	3
2001 663 Independent Study	2
2001 664 Practicum in Teaching Behaviorally Disturbed	
Children I (Student Teaching)	3
2001 665 Practicum in Teaching Behaviorally Disturbed	
Children II	3
IV. Comprehensive Examination	

Note: For candidates not presenting a teaching certificate: 0829 400 Teacher, School and Society is a prerequisite course.

Minimum: 43 semester hours

**School Psychologist Certification
(N.J. State Certificate)**

Graduate Advisor: Dr. Joan Silverstein

The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and supervised school, clinical, and community experiences. In addition, if all appropriate requirements are met, the student in this certification program will receive either an MA in Psychology or an MA in Educational Psychology. See the latest information.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Graduate Record Examination in Psychology or Education.
3. The Miller Analogies Test.
4. Four letters of recommendation.
5. Approval by the departmental committee.

Final application date December 31.

REQUIREMENTS FOR THE SCHOOL PSYCHOLOGIST CERTIFICATION PROGRAM

	Semester Hours
I. Educational Foundations (Select 4 courses)	12
0821 521 Contemporary Educational Thought	3
2001 538 Ethnopsychology	3
2001 553 Urban Psychology	3
2001 555 Psychological Aspects of Poverty	3
2001 560 Advanced Educational Psychology	3
2001 660 Current Topics in Educational Psychology	3
2002 535 Ethnology I	3
2208 565 Sociology of Youth	3
II. Education of the Handicapped	6
2001 564 Psychology and Education of the Physically and Mentally Handicapped	3
2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3
III. Testing and Clinical Techniques	24
2001 510 Research Methods in Psychology	3
2001 550 Quantitative and Statistical Methods	3
*2001 574 Individual Intelligence Testing	3

	*2001 575	Projective Techniques I	3
	*2001 576	Projective Techniques II	3
	*2001 578	Psychological Tests and Measurements	3
	2001 590	Diagnostic Case Studies	3
	2001 593	Clinical Interviewing	3
	2001 661	Practicum in School Psychology	3
	*2001 662	School Psychologist Externship	3
IV.		Personality and Behavioral Development	12
	2001 561	Developmental Psychology	3
	2001 563	Theories of Learning	3
	2001 567	Abnormal Psychology	3
	2001 573	Physiological Psychology	3
	2001 580	Personality	3
	2001 582	Behavior Modification	3
V.		Electives: Select courses to balance the program, with permission of graduate advisor	
		*Admission to the course is subject to approval of graduate coordi- nator.	

Minimum: 60 semester hours

PSYCHOLOGY

Course Descriptions

	Semester Hours
T 2001 510 RESEARCH METHODS IN PSYCHOLOGY	3
Non-laboratory introduction to correlational and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the educational and general psychology programs.	
T 2001 520 ADVANCED PSYCHOLOGY I	3
Learning and motivation (first half term), sensation and perception (second half term). Open to matriculated candidates in psychology programs only. Must be taken during the first year of the program.	
T 2001 521 ADVANCED PSYCHOLOGY II	3
Personality and abnormal psychology (first half term), social psychology (second half term). Open to matriculated candidates in psychology programs only, or with permission of instructor.	
T 2001 538 ETHNOPSYCHOLOGY	3
Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition.	
T 2001 540 TEACHING AND REMEDIATION TECHNIQUES WITH BEHAVIORALLY DISTURBED CHILDREN	3
Teaching and remediation of basic skills with behaviorally disturbed students; methods and materials in reading, mathematics, and language arts.	

T 2001 541 ADAPTIVE CURRICULUM AND PROGRAM PLANNING FOR BEHAVIORALLY DISTURBED CHILDREN 3

Modifying the school curriculum, program planning, and behavioral management options for the behaviorally disturbed students.

T 2001 542 WORKSHOP IN PSYCHOLOGY-HUMAN SEXUALITY 3

Psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists lecture and participate in group discussions: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and sex role, sex and the self-concept.

Prerequisite: Instructor's permission.

T 2001 545 SEMINAR IN BEHAVIORAL DISTURBANCES OF CHILDREN I 3

Survey and analysis of educational strategies and models for behaviorally disturbed students, e.g. psycho-educational, behavioral, psychodynamics. Day to day student-teacher adjustments and behavior management. Integrated with concurrent practicum. Open only to matriculated students.

T 2001 547 WOMAN: A CROSS-CULTURAL PERSPECTIVE 3

The physiological and psychological aspects of women studied cross-culturally and their implications for today's society will be the focus of this course. Morphological and psychological developments from conception to death in various cultures; inferences about the roles of women in our society will be made.

T 2001 548 SEX EDUCATION IN COMMUNITIES AND AGENCIES 3

Techniques for working the communities and agencies in setting up courses and offering materials for community programs in sex education.

T 2001 549 PSYCHOLOGY OF THE ADULT LEARNER 3

An overview of the developmental processors underlying adult behavior. Understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting learning and counseling procedures.

T 2001 550 QUANTITATIVE AND STATISTICAL METHODS 3

Principles and techniques of data analysis and experimental design in psychology, estimation of parameters, and hypothesis testing. Open only to matriculated students.

Prerequisite: Instructor's permission.

T 2001 552 GENERAL SOCIAL PSYCHOLOGY 3

Theory, methodology and research findings. Biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

Prerequisite: One course in psychology.

T 2001 553 URBAN PSYCHOLOGY 3

Theoretical and empirical literature on cities and those who live in and near them. Interaction of individual psychological factors and urban structures. Problems and issues related to crowding and density, poverty, housing, urban planning, neighborhoods, race relations.

Prerequisite: One course in psychology.

T 2001 554 PSYCHOLOGY OF BUSINESS AND INDUSTRY 3

Application of psychological findings to problems encountered in business and the professions.

T 2001 555 PSYCHOLOGICAL ASPECTS-POVERTY 3

Relationships between individual and group psychological factors and poverty as a major domestic issue. Critical approaches to psychological theories of poverty.

T 2001 556 ENVIRONMENTAL PSYCHOLOGY 3

Interaction of the physical environment with human behavior. Population density and crowding; environmental perception, historic environmental attitudes; architecture and behavior; unusual environments; man and the natural world.

T 2001 557 THEORY AND APPLICATION IN CONSUMER PSYCHOLOGY 3

The theory and assessment of consumer behaviors utilizing fundamental psychological principles will be emphasized. A field research project will be undertaken.

Prerequisite: Course in statistics.

T 2001 558 PERSONNEL PSYCHOLOGY 3

This course focuses on the application of psychological methods and knowledge to the personnel functions of industry. Emphasis is on major relevant social, economic and legislative changes affecting employment including civil rights, the women's movement, fairness in employment testing.

T 2001 559 SEMINAR IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3

This course covers the most recent advances, issues and problems in the field through the use of technical literature, legislation, judicial decisions, research techniques and consulting practice to provide the student with knowledge, techniques and skills for application. Each student presents a technical article, participates in a debate and reviews a topic in a term paper.

Prerequisites: T 2001 554, 555, 557.

T 2001 560 ADVANCED EDUCATIONAL PSYCHOLOGY 3

Focus on the learner and the learning process in school situations. Motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.

T 2001 561 DEVELOPMENTAL PSYCHOLOGY 3

Theoretical issues and research findings on psychological processes from pre-natal life through adulthood.

- T 2001 562 DYNAMICS OF HUMAN BEHAVIOR 3**
Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.
- T 2001 563 THEORIES OF LEARNING 3**
Review of current learning theory and research and the implications for education.
Prerequisite: Two courses in psychology or permission of graduate advisor.
- T 2001 564 PSYCHOLOGY AND EDUCATION OF PHYSICALLY 3
AND MENTALLY HANDICAPPED CHILDREN**
Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and administrators who work with such children or who wish to prepare for school and community leadership in developing facilities.
Prerequisite: T 2001 561.
- T 2001 565 PSYCHOLOGY AND EDUCATION OF SOCIALLY 3
AND EMOTIONALLY HANDICAPPED CHILDREN**
Practice and problems in education of socially and emotionally handicapped children.
Prerequisite: T 2001 561.
- T 2001 567 ABNORMAL PSYCHOLOGY 3**
Models and selected research in psychopathology, physical illness, psychosomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.
Prerequisite: T 2001 580.
- T 2001 568 PSYCHOLOGY OF GROUP DYNAMICS 3**
Theories of group dynamics and illustrative application to industrial, marital, political, interracial and professional life; personal participation by the student in a group interactive process. Open only to matriculated students.
- T 2001 570 THE PSYCHOLOGY OF HUMAN PERFORMANCE 3**
Application of psychological techniques to the problems encountered at the interface between human beings and modern technology. Workplace design, computer systems, transportation systems, man in space, control and display design.
- T 2001 571 ORGANIZATIONAL PSYCHOLOGY 3**
This course closely examines the psychological aspects of organizational functioning. Areas to be covered include motivation, job satisfaction, leadership, organizational development, and organizational change. All areas will be dealt with from both a theoretical and a practical point of view.
- T 2001 572 PROFESSIONAL PRACTICUM IN SCHOOL 3
PSYCHOLOGY ISSUES**
Provides an orientation to critical issues in the field of school psychology including roles and functions, the culture of schools and strategies for change, and legal and ethical issues. This course utilizes guest speakers, group discussions, and a series of planned school experiences to provide a conceptual framework for the study of school psychology. Approved certification candidacy in school psychology program required.

- T 2001 573 PHYSIOLOGICAL PSYCHOLOGY 3**
Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuroendocrine integrating relationships in the more complex behaviors.
Prerequisites: One course in experimental psychology, one in biology and instructor's permission.
- T 2001 574 INDIVIDUAL INTELLIGENCE TESTING 3**
Administration, scoring and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet scale, the Wechsler Intelligence Scale For Children, and the Wechsler Adult Intelligence Scale.
Prerequisite: Approved certification candidacy in the school psychology program.
- T 2001 575 PROJECTIVE TECHNIQUES I 3**
Basic instruments of projective testing, particularly the Rorschach and thematic apperception test, from the standpoints of basic research and the mechanics of administration and scoring.
Prerequisite: Approved certification candidacy in the school psychology program.
- T 2001 576 PROJECTIVE TECHNIQUES II 3**
Moves from the theoretical to the practical application of projective tests. Student required to administer, score and analyze individual cases. Major emphasis on the Rorschach and thematic apperception test.
Prerequisite: T 2001 575.
- T 2001 578 PSYCHOLOGICAL TESTS AND MEASUREMENTS 3**
Survey of theory, construction and application of psychological tests. Open only to matriculated students.
Prerequisites: T 2001 510, 550, or instructor's permission.
- T 2001 580 PERSONALITY 3**
Major theories and clinical and experimental findings.
Prerequisites: T 2001 521, 561 or instructor's permission.
- T 2001 581 MOTIVATION 3**
Nature and development of motives and their role in behavior.
Prerequisite: T 2001 520 or instructor's permission.
- T 2001 582 BEHAVIOR MODIFICATION 3**
Experimental findings, design of experiments, and practice in the application of learning principles to changing behavior. Student will perform some experiments.
Prerequisite: T 2001 563.
- T 2001 583 SENSATION AND PERCEPTION 3**
Sensory and perceptual processes. Includes: visual, auditory and other stimuli, psychophysics and the development of perceptual abilities and the effects of learning motivation and set on perceptual processes.
Prerequisite: T 2001 520 or instructor's permission.

T 2001 585 PSYCHOANALYTIC THEORY 3

A developmental analysis of the original Freudian concepts, and their use in psychoanalysis. The course will also include later evolutionary developments by noted analysts, including such theorists as Horney, Sullivan, Reik, Adler, Jung, Kris, and others.

Prerequisites: T 2001 567, 580, instructor's permission.

T 2001 590 DIAGNOSTIC CASE STUDIES 3

Learning to use diagnostic material and to write up diagnostic findings. The unique value of various diagnostic tools and the criteria for selection in relation to the present school problem.

Prerequisites: Approved candidacy in the school psychology certification program, T 2001 574, 575, 576.

T 2001 592 SPECIAL DIAGNOSTIC TECHNIQUES 3

Designed for students who are already competent in basic individual testing techniques. Specialized tests and techniques; evaluation of handicapped children.

Prerequisites: T 2001 574, 575, instructor's permission.

T 2001 593 CLINICAL INTERVIEWING 3

Clinical interviewing under rigid supervision as an essential part of a practicum experience. Diagnostic features of interviewing and inter-personal relationships between the psychologist and the client.

Prerequisites: Permission of the graduate advisor and instructor.

T 2001 600 THESIS I 4

Individual research under faculty direction. Student presents thesis proposal at a department colloquium and takes an oral examination upon completion of the thesis.

Prerequisite: Permission of thesis advisor.

T 2001 620 ORIENTATION AND OBSERVATION IN SPECIAL EDUCATION 2

Community resources, professional roles and responsibilities and team operations. On-site visits to special classes and rehabilitation centers and special guest lectures.

Prerequisite: Permission of instructor.

T 2001 645 SEXUAL FUNCTION AND DYSFUNCTION 3

Seminar in current trends and practices in sexual therapy. Historical material and research studies in the area of sexual function and dysfunction - from Freud to Masters and Johnson.

Prerequisites: T 2001 542, 567.

T 2001 659 SPECIAL TOPICS SEMINAR IN PSYCHOLOGY 3

Provides an in-depth view of important theoretical and methodological issues in various areas of psychology. Designed to permit faculty with particular interests and expertise to provide students with a comprehensive analysis of a contemporary issue (or related issues) in psychology. Seminar discussions will aim toward identification and clarification of theoretical issues in a particular field and at the integration of these issues.

Prerequisites: Completion of 15 or more credits in one's program; or instructor's permission.

T 2001 660 CURRENT TOPICS IN EDUCATIONAL PSYCHOLOGY 3

Opportunity to investigate and apply the techniques of research in the psychology field.

Prerequisites: T 2001 510, 560 and matriculation in psychology.

T 2001 661 PRACTICUM IN SCHOOL PSYCHOLOGY 3

Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.

Prerequisites: Approved certification candidacy in school psychology program and permission of graduate advisor.

T 2001 662 SCHOOL PSYCHOLOGY EXTERNSHIP 3

Students serve as apprentice psychologists in cooperating school districts or agencies. A fully certified school psychologist, employed in the cooperating district, or an appropriate clinician and the college supervisor make periodic visits and conduct a series of seminars to be scheduled on campus.

Prerequisites: Approved certification candidacy in school psychology program and permission of graduate advisor.

T 2001 663 INDEPENDENT STUDY 1-3

Individual project under supervision of a professor in the department.

Prerequisite: Instructor's permission.

**T 2001 664 PRACTICUM IN TEACHING BEHAVIORALLY
DISTURBED CHILDREN I 3**

Experience in teaching seriously and moderately emotionally disturbed children. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.

Prerequisite: Permission of the program coordinator.

**T 2001 665 PRACTICUM IN TEACHING BEHAVIORALLY
DISTURBED CHILDREN II 3**

Continues the experience described in T 2001 664. Open only to matriculated majors in the program for the teaching of emotionally disturbed children who have the program coordinator's approval.

T 2001 672 PRACTICUM IN PSYCHOTHERAPY 3

Supervised practice in individual and group counseling and psychotherapy; personal growth through self-understanding.

Prerequisite: T 2001 670, instructor's permission.

SOCIAL SCIENCES

MASTER OF ARTS DEGREE REQUIREMENTS

The Master of Arts program in Social Sciences is designed to accomplish four main objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social sciences and history.
2. To acquaint the student with the interrelatedness of these various fields as well as their relationship to other disciplines.
3. To familiarize students with the particular methodologies and specialized problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, the program offers advanced study in anthropology, economics, geography, history, political science, sociology, and urban studies. Degree candidates do a major portion of their work and prepare for a final comprehensive examination in one of these concentrations. The program also provides flexibility for interdisciplinary study in certain areas and is designed mainly for students who wish to work toward the degree on a part-time basis.

While teachers seeking to keep up-to-date in their fields or preparing for specialized secondary school subjects still constitute an important segment of the graduate student body, degrees in the social sciences and history are increasingly being pursued by (a) individuals seeking to change fields or professions, (b) individuals planning career advancement, and (c) individuals returning to the academic world after a hiatus of some time. A significant number of graduates of the program have pursued doctoral work successfully at major universities. The program's flexibility has also been utilized to enhance careers in business, government, politics, community service agencies, museum work, urban planning, etc. Student constituencies are able to achieve their respective purposes by following one of the tracks or specializations within the program.

Recognition of changing demands acts as a spur to further developments in the program. Thus some revision in the structure of the program's concentrations is currently being planned, and applied tracks in anthropology and sociology have been projected. Interested candidates should contact the chairperson of the appropriate department for information.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission to the graduate program at Montclair State, candidates must present an undergraduate record showing a total of at least 30 semester hours in the social sciences and/or history. For candidates with weak undergraduate preparation in the field of concentration, prerequisite courses, not for graduate credit, may be required.

ANTHROPOLOGY CONCENTRATION

Graduate Advisor: Dr. Bertha Quintana

	Semester Hours
I. Required Course	3
*2202 535 Ethnology	3
*Anthropology elective may be substituted for candidates with proper equivalent course experience.	
II. Anthropology Electives	12-15
2202 530 Anthropology of Institutional Life	3
2202 532 Anthropology of Cities	3
2202 533 Spanish Cultural Influences in the U.S.	3
2202 534 Transmission of Culture	3
2202 536 Cultural Diversity	3
2202 537 Responding to Cultural Change	3
2202 538 Ethnopsychology	3
2202 539 Prehistoric North America	3
2202 540 Social Anthropology and History	3
2202 541 Culture and Thought	3
2202 547 Women: A Cross-Cultural Perspective	3
2202 601 Independent Anthropological Research	3
III. Related Social/Behavioral Science and/or History Electives (Outside concentration area)	6-9
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examination	2
2202 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600, Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

Modified Concentration

(Recommended for students with undergraduate majors or minors in anthropology, or equivalent interdisciplinary backgrounds.)

With the approval of the graduate advisor, qualified students may develop modified concentrations in applied anthropology, cross-cultural studies, or ethnopsychology. Independent Anthropological Research (2202 601) and Reading Seminar and Comprehensive Examination (2202 603) are required courses for students in this category, together with courses appropriate to student needs and interests.

A maximum of 9 semester hours of senior-graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate catalog: e.g.,

- 2202 406 Anthropology of Aging and the Aged
- 2202 411 Archaeological Field Methods
- 2202 412 Cultural Ecology
- 2202 413 Medical Anthropology
- 2202 420 Apprenticeship in Anthropology

ECONOMICS CONCENTRATION

Graduate Advisor: Dr. Harold D. Flint

The purpose of the concentration in Economics is to assist students to acquire competency in the economic analysis of specialized fields with emphasis on theory and quantitative methodology, thereby enabling more effective participation in the formulation, evaluation, and implementation of public decision making. Candidates interested in Economics as an area of concentration should contact the graduate advisor or the chairperson of the department for information.

	Semester Hours
I. Required for all but undergraduate Economics majors:	
2204 501 Economics Analysis	3
II. Economics Electives	12-15
2204 502 Financial Institutions and Monetary Policy	3
2204 503 Economic Problems of the Third World	3
2204 505 Aggregate Economics	3
2204 508 Economics of Public Management	3
2204 510 Urban Economics: Problems and Policies	3
2204 533 Corporations and International Financial Markets	3
2204 541 Foundations of Contemporary Economic Thought	3
2204 542 Economic Fluctuations and Forecasting	3
2204 543 United States in the World Economy	3
2204 544 Government and Business	3
2204 545 Economics of Labor	3
III. Related Social/Behavioral Science and/or History	6-9
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examinations	2
2204 603 Independent study in preparation for written examination given in March and October.	

Minimum: 32 semester hours

GEOGRAPHY CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

It is highly recommended that candidates for the concentration in geography have an undergraduate major or minor in Geography or its equivalent from an accredited college or university. Candidates without this background may be required to make up deficiencies in their undergraduate programs.

	Semester Hours
I. Required Courses	6
2206 520 Landscapes in Transition	3
2206 521 Research Methods	3
II. Geography Electives	9-12
2206 501 Air Resource Management	3
2206 502 Problems in Economic Geography	3

2206 503	Culture Regions	3
2206 504	Pro-Seminar	3
2206 505	Human Environment	3
2206 509	Water Resource Management	3
2206 510	Urban Systems Analysis	3
2206 511	Urban and Regional Planning	3
2206 512	Transportation Analysis and Planning	3
2206 550	Urban Studies and Policy Analysis	3
2206 551	The Metropolitan Economy	3
2206 603	Reading Seminar in Geography and Urban Studies	2
2206 610	Urban Studies Seminar	3

Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested or acceptable courses are as follows:

2206 413	Geography of the Middle East	3
2206 452	Geohydrology	3
2206 409	Urbanization in World Perspective	3
2206 423	Culture and Resource Utilization	3
III.	Related Social/Behavioral Science and/or History Electives	6-9
IV.	Free Electives (outside the area of concentration)	6
V.	Reading Seminar and Comprehensive Examination	2
2206 603	Independent study in preparation for written examination given in March and October. Candidates may register for departmental thesis (600) 4 semester hours in lieu of comprehensive examination.	

Minimum: 32 semester hours

HISTORY CONCENTRATION

Graduate Advisor: Dr. Richard J. Barker

		Semester Hours
I.	Required Courses	3
	2205 501 New Interpretations in History	3
	or	
	2205 502 History and the New Social Studies	3
II.	History Electives	12-15
	2205 501 New Interpretations in History	3
	2205 502 History and the New Social Studies	3
	2205 511 Seminar in American Colonial History	3
	2205 512 The American Revolution, 1763-87	3
	2205 513 Problems of the New Nation, 1789-1828	3
	2205 514 Crisis American Nationalism, 1828-1876	3
	2205 517 Age of Franklin D. Roosevelt	3
	2205 518 Urban History: National Trends in N.J. Cities	3
	2205 519 America Since 1945	3

2205 521	Civil War and Revolutions in Chinese History	3
2205 522	Revolutionary Russia, 1905-21	3
2205 523	History of Soviet Diplomacy	3
2205 524	History of American Business Leaders	3
2205 525	History of American Labor, 1870-1970	3
2205 526	The Industrialization of America, 1865-1900	3
2205 529	Europe of the Dictators, 1919-39	3
2205 532	Modernization in Japanese Cultural History	3
2205 540	Europe as a World Civilization	3
2205 541	Asian Civilization—Comparative Cultural History	3
III.	Related Social/Behavioral Science Electives	6-9
IV.	Free Electives	6
V.	Reading Seminar and Comprehensive Examination	2
2205 603	Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

POLITICAL SCIENCE CONCENTRATION

Graduate Advisor: Dr. William M. Batkay

		Semester Hours
I.	Required Courses	3
	2207 502 Modern Political Analysis	3
II.	Political Science Electives	12-15
	2207 501 Public Administration and Public Policy	3
	2207 512 Origin and Development of the Constitution	3
	2207 521 History of Political Thought	3
	2207 522 Great Britain and the Commonwealth	3
	2207 523 Politics of Developing Areas	3
	2207 524 The Third World in the International System	3
	2207 551 Contemporary Constitutional Law	3
	2207 552 The President and Congress	3
	2207 553 The Federal Judicial Process	3
	2207 554 American Political Thought	3
III.	Related Social/Behavioral Sciences and/or History Electives	6-9
IV.	Free Electives	6
V.	Reading Seminar and Comprehensive Examination	2
2207 603	Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

SOCIOLOGY CONCENTRATION*

Graduate Advisor: Dr. Barbara Chasin

	Semester Hours
I. Required Courses	6
2208 560 Sociological Theory	3
2208 568 Seminar: Sociological Research Methods I	3
II. Sociology Electives	12
2208 559 Sociology of Deviance	3
2208 561 The Construction of Social Theory	3
2208 562 Social Change	3
2208 563 Self and Society	3
2208 564 Social Planning	3
2208 565 Sociology of Youth	3
2208 566 The Metropolitan Community	3
2208 567 Power and Social Stratification	3
2208 569 Seminar: Sociological Research Methods II	3
2208 570 Independent Projects	3
2208 571 Seminar: Sociological Inquiry	3
2208 572 Selected Problems in Sociology	3
2208 573 Sociology of City Sub-Areas	3
2208 574 Sociology of Ethnic Relationships	3
2208 575 Sociology of Voluntary Membership Institutions	3
2208 576 The Family as an Institution	3
2208 577 Sociology of Poverty in the U.S.	3
2208 579 Community Resources and Youth	3
2208 580 The Sociology of Higher Education	3
2208 581 Sociological Perspectives on Health & Medicine	3
2208 582 The Sociology of Health Care Systems	3
2208 584 The Sociology of the Criminal Justice System	3
2208 585 The Sociology of Police	3
2208 587 The Sociology of Juvenile Delinquency	3
2208 588 Aging Individual in an Aging Society	3
2208 589 Social Epidemiology	3
III. Related Social/Behavioral Science and/or History Electives	6
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examination	2
2208 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

* *Some courses listed here are part of new programmatic offerings. Interested students should contact the Sociology graduate advisor or chairperson regarding when specific courses will become available.*

URBAN STUDIES CONCENTRATION

Graduate Advisor: Professor Bertrand P. Boucher

	Semester Hours
I. Required Courses	9
2206 550 Urban Studies and Policy Analysis	3
2206 551 The Metropolitan Economy	3
*2206 610 Urban Studies Seminar	3
*To be taken only after the candidate has completed 2206 550, 551 and 9 semester hours of Urban Studies electives.	
II. Urban Studies Electives	9
2206 504 Pro-Seminar	3
2206 510 Urban Systems Analysis	3
2206 511 Urban and Regional Planning	3
2206 512 Transportation Analysis and Planning	3
*2206 521 Research Methods	3
2202 532 Anthropology of Cities	3
2204 508 Economics of Public Management	3
2204 510 Urban Economies: Problems and Policies	3
2205 518 Urban History: National Trends in North Jersey Cities	3
2207 501 Public Administration and Public Policy	3
2001 553 Urban Psychology	3
2201 555 Psychological Aspects of Poverty	3
2208 566 The Metropolitan Community	3
2208 567 Power and Social Stratification	3
2208 573 Sociology of the City Sub-Areas	3
2208 574 Sociology of Cultural and Ethnic Groups	3
2208 577 Sociology of Poverty in the U.S.	3
2208 579 Community Resources and Youth	3
*Recommended	
Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested courses are the following:	
2206 427 Housing in America	3
2206 462 People and Cities: Comparative Urban Studies	3
2206 411 Problems in Urban Geography	3
2206 428 Planning for People	3
III. Related Social/Behavioral Sciences and/or History Electives	6
IV. Free Electives	6

SOCIAL SCIENCES

Anthropology Course Descriptions

Semester
Hours

J 2202 530 ANTHROPOLOGY OF INSTITUTIONAL LIFE 3

An analysis of the relationship between culture, society, personality and institutional life. Emphasis is placed on the relationship between formal organizations and public interests.

J 2202 532 ANTHROPOLOGY OF CITIES 3

A cross-cultural investigation of urbanism and urbanization. Utilizing anthropological monographs, the comparative method will be employed to discover recurrent patterns of adaptation to urban environments.

J 2202 535 ETHNOLOGY 3

A graduate introduction to the "science of peoples, their cultures and life histories as groups." Ethnographic and ethnological methodology and theory. Primarily for graduate students with limited or no previous course work in cultural anthropology.

J 2202 536 CULTURAL DIVERSITY 3

Descriptive, historical and theoretical anthropological works provide the basis for studying likenesses and differences among folk and urban cultures, their historic development, and interrelationships between differing aspects of culture.

J 2202 537 RESPONDING TO CULTURE CHANGE 3

Emphasis on the dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and/or stimulate culture change are considered in transcultural perspective. A unit of study is devoted to the psycho-cultural consequences of rapid change.

Prerequisite: An introductory course in anthropology or instructor's permission.

J 2202 538 ETHNOPSYCHOLOGY 3

Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition, personality under stress, cultural psychiatry, and creativity in culture. Interdisciplinary field work.

Prerequisite: Previous course work in anthropology, psychology, or instructor's permission.

J 2202 539 PREHISTORIC NORTH AMERICA 3

General background in native American archaeology, and theory and method in this subdiscipline. Selected culture areas and problems relating to time depth, cultural interaction, and the nature of archaeological evidence north of Mexico.

J 2202 541 CULTURE AND THOUGHT 3

How different peoples organize and use their cultures; data from formal ethnography, semantic analysis, ethno-science and componential analysis for purposes of studying culture and building culture theories.

Prerequisite: Previous course work in ethnology, ethnopsychology or linguistics.

J 2202 547 WOMAN: CROSS-CULTURAL PERSPECTIVE 3

Physiological and psychological aspects of women studied cross-culturally, and their implications for contemporary society. Morphological and psychological development from conception to death in various cultures, inferences about the roles of women in American society.

J 2202 601 INDEPENDENT ANTHROPOLOGICAL RESEARCH 3

Under faculty guidance, the student works independently throughout the academic year on a delimited problem in anthropology. Course includes presentation of proposal, execution and write-up of research, and oral defense of findings.

Prerequisites: Permission of the graduate advisor and instructor.

J 2202 603 READING SEMINAR IN ANTHROPOLOGY 2

Required of all M.A. candidates concentrating in anthropology. Directed independent study in preparation for 3 hour comprehensive examination.

Economics Course Descriptions

C 2204 501 ECONOMIC ANALYSIS 3

The resource allocation and distribution of income implications of a market-oriented economy operating under various degrees of competition. Also analyzed are the determinants of consumer and market demand and the theoretical cost structure of firms.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3

This course analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems, both theoretical and applied, in the area of monetary policy.

Prerequisite: C 2204 501.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3

A survey of major economic problems of the Third World, examination of the economic structure of developing countries and of general theories of economic development, critical evaluation of various policy alternatives for their development, analysis of possible economic relationships between First and Second Worlds with the Third World.

Prerequisite: C 2204 501.

C 2204 505 AGGREGATE ECONOMICS 3

This course develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models, the course examines current research and reviews the economy's recent macroeconomic performance.

Prerequisite: C 2204 501.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3

Application of capital theory in the decision-making processes of government, and alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: C 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS & POLICY 3

The location of economic activities, the growth of cities and the origins of some urban problems in a market economy. Also discussed are the problems of location and congestion due to agglomeration and non-market phenomena.

Prerequisite: C 2204 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3

The course will discuss the economic theories and problems which confront business institutions when dealing in international financial markets. It will analyze the various market instruments and how a corporation may use them.

Prerequisite: C 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3

Antecedents of current economic theory, economics as a cumulative science, the works of the creative economists, and the uses and limitations of economic theory.

Prerequisite: C 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS AND FORECASTING 3

Theories to account for variations in business activity; macroeconomic models and other forecasting approaches; economic fluctuations in the United States, proposals for reducing fluctuations, Harrod Domar model and other modern theories of growth.

Prerequisites: C 2204 505.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3

Principles of international finance, international monetary relations and international trade. Discussion of contemporary international monetary and trade problems and policies. Discussion of the economic aspects of current American foreign policy.

Prerequisite: C 2204 505.

C 2204 544 GOVERNMENT AND BUSINESS 3

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control, and the importance of economic analysis in the foundation of public policies.

Prerequisites: C 2204 501.

C 2204 545 ECONOMICS OF LABOR **3**
 Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.
 Prerequisites: C 2204 501.

C 2204 603 READING SEMINAR IN ECONOMICS **2**
 Required of all masters degree candidates concentrating in Economics. This seminar entails directed independent study in preparation for a 3-hour written comprehensive examination.

Geography & Urban Studies Course Descriptions

N 2206 501 AIR RESOURCE MANAGEMENT **3**
 Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.

N 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY **3**
 Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.

N 2206 503 CULTURE REGIONS **3**
 Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space and the diffusion process.

N 2206 504 PRO-SEMINAR **3**
 Research on selected problems which will vary according to instructor.

N 2206 505 HUMAN ENVIRONMENT **3**
 Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.

N 2206 509 WATER RESOURCE MANAGEMENT **3**
 The spatial patterns of the water resource both as surface water and ground water. Processes affecting availability and techniques of estimation are stressed.
 Prerequisite: N 4951 501.

N 2206 510 URBAN SYSTEMS ANALYSIS **3**
 The complexity of the city and its modification by means of planning the systems approach to urban study, the ecological base, different models of urban systems, the impact of technological change, the hieraracy of urban regions; planning in the the existing systems and creating new ones.

N 2206 511 URBAN AND REGIONAL PLANNING 3

Urban and regional planning, analyzing planning goals at an integral level, and rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

N 2206 512 TRANSPORTATION ANALYSIS AND PLANNING 3

Transportation analysis addresses such diverse subject matter as technological change in the transportation media, transportation and energy, degree of accessibility, passenger trip generation by kind, commodity flows, transportation and spatial order, and transportation planning as part of urban and regional planning.

N 2206 520 LANDSCAPES IN TRANSITION 3

The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.

N 2206 521 RESEARCH METHODS AND TECHNIQUES IN GEOGRAPHY AND URBAN STUDIES 3

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical, mapping techniques, and the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective, the interaction of different social, cultural, economic, political and planning forces are examined for their impact upon the resulting system.

N 2206 551 THE METROPOLITAN ECONOMY 3

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inner city relationships. Urban design planning juxtaposed with multi-faceted decision making processes for an examination of their relative position in the management of urban systems.

N 2206 603 READING SEMINAR IN GEOGRAPHY AND URBAN STUDIES 2

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3

This seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

History Course Descriptions

P 2205 501 NEW INTERPRETATIONS IN HISTORY 3

Designed to help teachers keep up to date in the fields of American, European and Non-Western history. Major trends and developments in the study of history in the light of recent representative examples of historical research and interpretation.

Prerequisite: Open only to history candidates or students with social studies certification.

P 2205 502 HISTORY AND NEW SOCIAL STUDIES 3

Designed to assist teachers, administrators and supervisors in acquiring a comprehensive view of modern materials, methods and curricula in history and the social sciences.

Prerequisite: Open only to students with social studies certification, or permission of the instructor.

P 2205 511 SEMINAR IN AMERICAN COLONIAL HISTORY 3

This course will examine the forces and conditions of the colonial period which contributed to the shaping of the characteristics of American political and economic institutions, social practices and ideas, intellectual outlooks, and attitudes.

Prerequisite: Open only to history candidates or students with social studies certification, or permission of the instructor.

P 2205 512 AMERICAN REVOLUTION 1763-1787 3

The causes and course of the American revolution from both British and American viewpoints, including analysis of economic, political, social and intellectual factors.

P 2205 513 PROBLEMS-NEW NATION 1789-1828 3

The growth of political institutions under the Constitution, the gaining of respect as a new country in the family of nations, the establishment of economic credit, and the rise of American nationalism.

P 2205 514 THE CRISIS OF AMERICAN NATIONALISM, 1828-1876 3

The crisis in American nationalism from Jackson through reconstruction as the country's Constitution, party system, and social structure contend with the disruptive effects of territorial expansion, the factory system, slavery and the new immigration.

P 2205 517 AGE OF FRANKLIN D. ROOSEVELT 3

An opportunity to study that part of recent American history centering about Franklin Delano Roosevelt. While concentrating on domestic aspects of American life, attention is given also to foreign affairs and their impact on the daily lives of Americans.

Prerequisite: Open only to history or social science candidates or students with social studies certification.

P 2205 518 URBAN HISTORY: NATIONAL TRENDS IN NEW JERSEY CITIES 3

An advanced survey of the urban dimension in American history and of urban history as a discipline. Late 19th and 20th century national trends are pin pointed within the development of Paterson, Passaic, Jersey City, Newark and their suburbs.

Prerequisite: Open only to history or social science candidates or students with social studies certification.

P 2205 519 AMERICA SINCE 1945 3

This course studies the transformation of the Roosevelt coalition and its liberal policies since 1945 as they faced the challenge of the cold war abroad, and growing class and racial upheaval at home.

P 2205 522 REVOLUTIONARY RUSSIA 1905-1921 3

The historical forces of 19th and 20th century Russia which led to the Bolshevik revolution of November, 1917 and to the consolidation of Soviet power by 1921.

P 2205 523 HISTORY OF SOVIET DIPLOMACY 3

Changes in the ideological determinants of Soviet diplomacy contrasted with fluctuations in internal and external political and economic policies. Contributions of leading Soviet statesmen to diplomatic history.

P 2205 525 HISTORY OF AMERICAN LABOR 1870-1970 3

Study of the American worker from the period after the Civil War to the present, with concentration on social, political and economic behavior as well as the Union movement.

P 2205 526 THE INDUSTRIALIZATION OF AMERICA, 1865-1900 3

The causes and nature of the industrialization of the American economy after the Civil War; factors responsible for rapid economic growth; the impact of changing productive techniques on American institutions and human welfare.

Prerequisite: Open only to history or social science candidates or students with social studies certification.

P 2205 529 EUROPE OF THE DICTATORS, 1919-1939 3

The political, social, economic and intellectual developments in the major states of Western Europe during the interwar period, with emphasis on varieties of Fascism.

P 2205 603 READING SEMINAR IN HISTORY 2

Required for all master's degree candidates concentrating in History. This seminar entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration. Candidates should register for the seminar in the semester preceding the examination date. Registration examination Fall, March; Spring, October.

Political Science Course Descriptions

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3

Literature and developments in the field of public administration from Woodrow Wilson to the new public administration movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy making process.

Prerequisite: An undergraduate course in administration or instructor's permission.

S 2207 502 MODERN POLITICAL ANALYSIS 3

Required of all master's degree candidates concentrating in political science, this course deals with the methodologies and orientations that have guided the study of political phenomena. Utility of methods and the validity of theories are examined by reference to data related to specific political systems. Perspective is comparative and theoretical.

Prerequisite: A course in the scope and theories of political science, or equivalent, or instructor's permission.

S 2207 512 ORIGIN AND DEVELOPMENT OF THE U.S. CONSTITUTION 3

The roots and influences that determine the nation's basic political document. The role of the Marshall Court in shaping the constitution.

Prerequisite: A course in American government or instructor's permission.

S 2207 521 HISTORY OF POLITICAL THOUGHT 3

Systematic analysis of the main traditions of western political thought. Study of major political philosophers from Plato to Marx. Leading concepts of each major tradition are related to their historical contexts and their contemporary significance.

Prerequisite: A course in political theory or instructor's permission.

S 2207 522 GREAT BRITAIN & COMMONWEALTH 3

Origins, membership and working institutions of the British Commonwealth of nations. Problems of the commonwealth since 1945, in light of Britain's altered position in international and European affairs.

S 2207 523 POLITICS OF DEVELOPING AREAS 3

Introduction to the field of political stability and change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary and continuing search for political modernization in the emerging nation-states of Africa, Asia and Latin America.

Prerequisite: Course in politics of development and modernization or instructor's permission.

S 2207 524 THE THIRD WORLD IN THE INTERNATIONAL SYSTEM 3

The position and role of African and Asian nation-states in contemporary international relations, mutual relations; their encounters with the major powers; involvement in general international organizational and diplomatic activity and domestic political and economic factors that affect or underlie their international interactions.

Prerequisite: A course in government and politics of Africa, or government and politics of South Asia or instructor's permission.

S 2207 551 CONTEMPORARY CONSTITUTIONAL LAW 3

The supreme court's decisions in the area of public law. Critical analysis and in-depth study of the first ten amendments, especially as related to the court's recent decisions.

Prerequisite: A course in constitutional law or instructor's permission.

S 2207 552 THE PRESIDENT AND CONGRESS 3

Organization, structure and powers of the national executive and legislative branches of government. Emphasis on legislative-executive relationships, nature and functioning of the legislative powers, respective roles of the president and congress in the formulation of public policy in a modern democracy.

Prerequisite: A course in American government or instructor's permission.

S 2207 553 FEDERAL JUDICIAL PROCESS 3

The federal courts as a political subsystem: court organization, civil and criminal procedures, judicial behavior of federal judges, interactions between federal courts, relations with clientele groups and other branches of the federal government, the flow and content of litigation, and relations with state court systems.

Prerequisite: A course in American government or state and local government or instructor's permission.

S 2207 554 SEMINAR IN AMERICAN POLITICAL THOUGHT 3

The various interpretations of American political thought; nature and limitations of the liberal ethos underlying the American political and constitutional system; the controversy over the "bias" of American pluralism.

Prerequisite: A course in American political thought or instructor's permission.

S 2207 603 READING SEMINAR IN POLITICAL SCIENCE 2

Required of all master's degree candidates concentrating in political science, this seminar entails directed independent study in preparation for a three-hour written comprehensive examination.

Sociology Course Descriptions

U 2208 559 SOCIOLOGY OF DEVIANCE 3

The efforts of such people as Lemert, Becker, Morton, Matze and others to develop theories concerning crime, delinquency, mental illness and other issues which can be viewed as social problems.

U 2208 560 SOCIOLOGICAL THEORY 3

The practical and philosophical methods of the major sociological theorists are investigated and evaluated.

U 2208 562 SOCIAL CHANGE 3

The dynamics of contemporary societies: sacred and secular movements, technological and cultural change, protest and revolution, and 20th century nationalism. The effect of change considered in relation to individuals, groups, institutions and total societies.

U 2208 563 SELF AND SOCIETY 3

The relationships between the human individual and his social environment; the formation, maintenance and transformation of self or identity; the structure and processes of small groups; symbolic communication; role theory, cognitive dissonance and inter-group conflict.

U 2208 564 SOCIAL PLANNING 3

The many elements and considerations in planning for a community, a state or a nation. The social context of planning; projective techniques; budgets, master plans, development programs and area proposals. The human, the economic, the ecological. Students will be expected to undertake a social planning project. A basic knowledge of statistics and the use of statistical data is desirable.

U 2208 565 SOCIOLOGY OF YOUTH 3

Socialization processes acting upon young people; the role of family, neighborhood, school and community; the effects of failures in these socializing agencies; changing relations among age grades; quantitative studies of the culture of youth with comparisons to other age grades.

U 2208 566 THE METROPOLITAN COMMUNITY 3

The many dimensions of the metropolitan community: human factors, problems an area faces, political difficulties, interaction between the center city and the other parts of the community. Emphasis on New York-New Jersey.

U 2208 567 POWER AND SOCIAL STRATIFICATION 3

Theoretical and empirical approaches to the phenomena of class, status and power. Examination of contemporary research on power and stratification. A comparative approach will be taken.

U 2208 568 SOCIAL RESEARCH METHODS I 3

The elements of sociological methods included in this course are: study design, hypotheses development, data collection techniques, use of primary and secondary sources, and field techniques. Each student will participate in the multi-city field research laboratory project which is designed and executed conjointly with graduate students and faculty of cooperating colleges. The field project provides the student with a unique experience because of his participation in major project with a team of researchers.

U 2208 569 SOCIAL RESEARCH METHODS II 3

Continuation of Social Research Methods I. The elements of method included are coding techniques, analysis and scientific report writing.

- U 2208 570 INDEPENDENT PROJECTS 3**
 Student investigates a topic of sociological relevance under the guidance of a faculty member.
- U 2208 571 SEMINAR SOCIOLOGICAL INQUIRY 3**
 Develops competences needed for the critical assessment of sociological literature, the formulation of productive research problems and the sophisticated pursuit of inquiry. Intensive study of a number of readings dealing with certain crucial areas of sociological concern. Also gives students coming into sociology concentration without a broad background remedial experience in dealing with advanced concepts, theories and methods.
- U 2208 572 SELECTED PROBLEMS IN SOCIOLOGY 3**
 The intensive exploration of a general problem in sociology. Participants contribute research into an aspect of the problem. Formed at the initiative of a department member or in response to student's interest with consent of the instructor.
- U 2208 574 SOCIOLOGY OF ETHNIC RELATIONSHIPS 3**
 Analysis of relationships among ethnic groups. Causes and consequences of ethnic conflict.
- U 2208 576 THE FAMILY AS AN INSTITUTION 3**
 The family unit as an institution within society; the family in contemporary American society; the family sociologically examined as an institutional form, a social system in process and a socializing agency.
- U 2208 577 SOCIOLOGY OF POVERTY IN THE UNITED STATES 3**
 Examines traditional and contemporary definitions and ideologies of poverty and public welfare. Consideration of the extent and patterns of distribution of poverty. Alternative socio-economic explanations and their implications for public policy.
- U 2208 579 COMMUNITY RESOURCES AND YOUTH 3**
 Resources for the healthy as well as the deviant child, in the family and neighborhood, in addition to services provided by public and private agencies; relevant federal and state legislation.
- U 2208 581 SOCIOLOGICAL PERSPECTIVES ON HEALTH AND 3
 MEDICINE**
 This course will introduce the student to the interesting and complex relationships that exist between society, health and health care. Class discussions will focus on the connections between social structure, the quality of the physical and social environment and health. Special attention will be given to work environments. This course will also deal with the effects of social factors on the experience of one's body, the perception of disease and on the construction of medical knowledge.

U 2208 582 THE SOCIOLOGY OF HEALTH CARE SYSTEMS 3

This course will focus on the relationship between the social structure of medical institutions, professional values, the socialization of health professionals and health care. The social context for the emergence of the modern medical profession, technology and knowledge will be considered along with contemporary social trends in Western industrialized societies such as the increasing medicalization of life. A comparative analysis of healers and health care will also be emphasized.

U 2208 584 THE SOCIOLOGY OF THE CRIMINAL JUSTICE SYSTEM 3

This course will focus on how the criminal justice system (composed of police, court and correctional institutions) functions as a mechanism for the reproduction of a social order based on the unequal distribution of power, wealth and status. It will explore gender, race and class bias in the processing and imprisonment of offenders and the role of the criminal justice system in the reproduction of a "criminal" underclass. It will also examine the psychosocial experience of participants in the Criminal Justice system and the relationship between deviance and the institutions of social control.

U 2208 585 THE SOCIOLOGY OF POLICE 3

The course will examine the urban police organization from diverse sociological perspectives. Subjects include the origin and function of the police, social organization of urban police work, police personality, police and the public, police violence, police corruption and lying, status, gender and race relations within the organization, professional ideologies, professionalization and social change.

U 2208 587 THE SOCIOLOGY OF JUVENILE DELINQUENCY 3

This course will introduce students to the major sociological theories of juvenile delinquency. Of particular concern is the relationship between juvenile crime and the socio-economic and institutional arrangements of the larger society. Topics to be explored include juvenile crime in industrial capitalism, delinquency and the school experience, juvenile crime and adolescent development, the family and delinquency, class, ethnicity, gender and the delinquent experience and the juvenile justice system.

U 2208 588 AGING INDIVIDUAL IN AN AGING SOCIETY 3

As America's population shifts toward an increasingly aging society, the social aspects of aging become especially important. The purpose of this course is to examine some of the sociological theories on aging, with primary emphasis on the relationships of aging to the family, education, economics, politics, and religion.

U 2208 589 SOCIAL EPIDEMIOLOGY 3

Social epidemiology is the study of social factors in the development of disease. This course examines these social factors with particular emphasis upon the relationship of power, stratification, social environment and stress. Other social factors (such as social status, gender, age, race, ethnicity, population, religion, and familial characteristics) in the chain of illness causality will also be examined.

Required for all master's candidates concentrating in sociology who elected to take a comprehensive examination. Candidates should register for the seminar in the semester preceding the examination date.

SPANISH/ITALIAN

Chairperson: Professor Janet Susi

Graduate Advisor: Dr. Robert McCormick

The program is designed to prepare students for research in language and literature, and for professional positions demanding a knowledge of Spanish: interpreters; translators; counselor service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors; organizers of projects for Spanish-speaking communities; and representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in colleges and universities.

The department offers summer graduate courses at the University of Madrid. This program is designed for teachers of Spanish and those in related professions.

ADMISSION REQUIREMENTS

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours or the equivalent of undergraduate Spanish and hold a bachelor's degree. These students must take the Graduate Record Examination and Advanced Test in Spanish prior to acceptance into the program.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a master's degree program, if they have 24 semester hours or the equivalent in Spanish.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN SPANISH

	Semester Hours
I. Required Courses	3
1105 505 History of the Spanish Language	3
II. Peninsular Area	12
One course from each of 4 designated areas	
III. Spanish-American Area	12
One course from each of 4 designated areas	

- IV. Electives 9
A minimum of three additional courses from the departmental offerings.
- V. Comprehensive Examination. The candidate for the M.A. degree will apply to the graduate advisor for the comprehensive examination one semester prior to the desired examination date.
Minimum: 36 semester hours
For further details see the graduate advisor.

SPANISH/ITALIAN

Course Descriptions

	Semester Hours
V 1105 501 ADVANCED STUDIES IN THE SPANISH LANGUAGE	3
This course provides students with the tools of stylistic analysis in order to enhance their appreciation of literary texts and to improve their own writing skills. It will acquaint the students with the principles of contrastive analysis to give them greater control over the structures of Spanish.	
V 1105 505 HISTORY OF SPANISH LANGUAGE	3
The Spanish language from its origins to the present. Phonological, structural and lexical evolution from vulgar Latin, following the process of transformation from its first documentary appearance.	
V 1105 506 SPANISH DIALECTOLOGY OF THE AMERICAS	3
This course acquaints the student with the various dialects of Spanish found in America. The student learns to recognize, characterize and describe accurately the various dialects discussed. Prerequisite: V 1105 505.	
V 1105 516 MEDIEVAL SPANISH LITERATURE TO XV CENTURY	3
The outstanding prose and poetry of Spain from the XIth century to the XVth century paying attention to the peculiar three-cultured society of the period.	
V 1105 522 THEATER OF THE GOLDEN AGE	3
Structural and thematic study of the <i>comedia</i> through readings and discussions of representative plays of the period including Lope, Tirso, Caldéron, Alarcón and Moreto.	
V 1105 523 PROSE AND POETRY OF THE GOLDEN AGE	3
Critical readings of the picaresque and pastoral novels, humanistic writings of Luis Vives, Alfonso and Juan Valdés, and Gracián. Textual analysis of the poetry of the renaissance and baroque from Garcilaso to Quevedo.	
V 1105 524 CERVANTES	3
The prose writings and drama of Cervantes focusing on his unique artistic achievement. Readings of <i>El Quijote</i> , <i>Novelas Ejemplares</i> , <i>Persiles y Sigismunda</i> , his comedias and entremeses.	

- V 1105 525 ENLIGHTENMENT AND ROMANTICISM 3**
The erudition of the enlightenment as symbolized by Feijoo, Jovellanos; neoclassicism; the romantic movement exemplified by Larra, El Dugue de Rivas, Espronceda, Garcia Gutiérrez, Zorrilla, Alarcón, Costumbrismo.
- V 1105 526 REALISM IN SPAIN 3**
Problems germane to 19th century Spain, as shown by Fernán Caballero, Pereda, Blasco Ibáñez. Particular emphasis upon the works of Pérez Galdos.
- V 1105 527 THE GENERATION OF 98 3**
A reprobing into the roots of Spain through the works of Unamuno, "Azorín," Baroja, Valle-Inclán, Benavente, Ortega y Gasset and Maeztu.
- V 1105 533 CONTEMPORARY SPANISH THEATRE 3**
Representative plays from Benavente to Sastre are read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.
- V 1105 530 SPANISH CULTURAL HISTORY 3**
A study of the formation of Spanish customs and thought through an investigation of the political, social and cultural influences on the Iberian peninsula from the primitive era to the present.
Prerequisite: Graduate status.
- V 1105 534 SPANISH PROSE OF THE TWENTIETH CENTURY 3**
Prose works of the generations of 1927 and 1936; Lorca, Casona. Trends in contemporary prose; Buero Vallejo, Sastre, Cela, Zunzunegui, Delibes, Goytisolo, Laforet, Matute and selected younger writers of the present generation.
- V 1105 535 CONTEMPORARY SPANISH POETRY 3**
Unamuno, Machado, Jiménez the poetry of the generation of "27" and selective readings of younger poets of today. Emphasis on textual analysis.
- V 1105 540 COLONIAL SPANISH-AMERICAN LITERATURE 3**
Indigenous literature such as the Popol Vuh, Rabinal Achi, and Nahuatl and Quechua poetry, the chronicles, the Inca Garcilaso and epic poetry. Sor Juana Inés de la Cruz and Concolorcorvo.
- V 1105 541 SPANISH-AMERICAN LITERATURE OF THE NINETEENTH CENTURY 3**
The evolution from neoclassicism and romanticism to naturalism and realism in prose and poetry. Fernández de Lizardi, Heredia, La Avellaneda, Matto de Turner, Sarmiento and the Gaucho poets.
- V 1105 542 SPANISH-AMERICAN NOVEL OF THE TWENTIETH CENTURY 3**
Study of the aesthetic novels of "Modernismo". Novels of the Mexican revolution, the psychological novel and novel of the land and of social reform.

V 1105 543 SPANISH-AMERICAN THEATRE OF THE TWENTIETH CENTURY 3

New trends in the Spanish-American theatre; the theater of the absurd, the theater of cruelty, and the fantastic. Readings of such representative playwrights as Emilio Carballido, Carlos Solorzano, Elena Garro, Osvaldo Dragún, Griselda Gambaro.

V 1105 546 MODERNISMO IN SPANISH AMERICA 3

Critical evaluation of the "Modernista" movement in Spanish-American poetry and prose (1870-1920). The genesis, technique, characteristics and principal writers of the movement.

V 1105 548 CONTEMPORARY SPANISH-AMERICAN NOVEL 3

A critical examination of representative works of contemporary writing in Spanish-America. The relation of the Spanish-American novel to the genre in Europe, North America and Spain.

Prerequisite: V 1105 542.

V 1105 549 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3

Study of the tendencies in the contemporary short story from the post-modernist period, realism and fantasy. The short story as a social document.

V 1105 551 CONTEMPORARY SPANISH-AMERICAN POETRY 3

Individual works of poetry as autonomous linguistic and artistic creations and as part of a general renaissance in culture. Post-modernism, vanguardism and post-vanguardism.

V 1105 560 TOPICS IN SPANISH AND SPANISH-AMERICAN LITERATURE 3

Selected specialized topics, either of a period, genre, or particular author, in Spanish or Spanish-American literature. Topic will change with each offering. Majors only.

V 1105 603 RESEARCH 3

Course designed to provide an opportunity for graduate students in Spanish to investigate and apply techniques of research. Students will write a major paper in the area of their field of specialization.

Prerequisite: Completion of at least 15 hours in the major field of specialization.

SPEECH AND THEATRE

Chairperson: Dr. Gerald Ratliff

Graduate Advisor: Professor Karl R. Moll

The Master of Arts degree in Speech and Theatre is designed to enhance the development of already existing skills in communication theory, public media arts, and theater. The program is structured to emphasize both the theoretical and practical approaches to speech and theatre, and to allow for original research and creative projects. Special attention is paid to the literature and history of each area of concentration, and to the respective academic skills necessary to become a practitioner of the selected discipline. The course sequence and content are designed to strengthen teaching, performance, and analytical skills, and to prepare those who wish to pursue a profession in media and arts related areas. The Master of Arts degree is also ideally suited for those who plan to continue in a program of doctoral studies.

ADMISSION REQUIREMENTS

Students wishing to matriculate as speech and theatre majors must have completed a major or the equivalent from the following area: theatre, oral interpretation, speech or mass communication. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory backgrounds through undergraduate courses for which graduate credit is not given.

REQUIREMENTS FOR THE MASTER OF ARTS IN SPEECH AND THEATRE

The candidate must complete all four parts of the requirements for the degree as detailed below.

	Semester Hours
I. Core courses	7-9
1506 501 Survey of Research Methods	3
0603 or 1007 or 1506 600 Thesis	4
or non-thesis option: selected courses recommended by graduate advisor	6
II. Elective courses within the concentration	19

CONCENTRATION IN THEATRE

**Semester
Hours**

Emphasis in either Technical or Acting/Directing

1007 500	Independent Study	By arrangement
1007 504	Contemporary Experimental Theatre	2
1007 507	Seminar in Dramatic Production	3
1007 508	Internship in Dramatic Production	3-7
1007 511	Forms of Tragedy	3
1007 512	Forms of Comedy	3
1007 513	Modern and Contemporary Theatre History	3
1007 514	Non-Western Drama and Theatre	3
1007 517	Theatre Criticism	3
1007 525	Advanced Acting Workshop	3
1007 535	Advanced Directing Workshop	3
1007 545	Scenic Design I: The Legitimate Theatre	3
1007 546	Scenic Design II: The Performing Arts	3
1007 554	Stage Lighting Design	3
1007 555	Advanced Problems in Technical Production	3
1007 575	Seminar in Costume Design and Construction	3
1007 580	Theatre Management	3
1007 599	Independent Study	By arrangement
1007 600	Thesis	4
1506 504	Advanced Applied Phonetic Study	3
1506 509	Special Problems in Speech and Theatre	3
1506 565	Advanced Oral Interpretation	3

CONCENTRATION IN SPEECH AND THEATRE EDUCATION

1506 500	Independent Study	By arrangement
1506 501	Survey of Research Methods	3
1506 503	Advanced Voice and Speech Improvement	3
1506 504	Advanced Applied Phonetic Study	3
1506 509	Special Problems in Speech and Theatre	3
1506 511	Revolutionary Rhetoric	3
1506 519	Seminar in Rhetorical Criticism	3
1506 521	Competitive Forensics	3
1506 533	Lecture and Lecture Recital	1
1506 536	Seminar in Persuasion	3
1506 560	Internship in Oral Communication	3-7
1506 565	Advanced Oral Interpretation	3
1506 599	Independent Study	By arrangement
1506 600	Thesis	4
0603 581	The Broadcast Media and Mass Culture	3

INTERDISCIPLINARY CONCENTRATION IN PUBLIC MEDIA ARTS

A study of the forces affecting the exchange of information with the public and the techniques utilized in transmission.

0603 500	Independent Study	By arrangement
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0603 510	Television Production I	3
0603 511	Television Production II	3
0603 580	Internship in Public Media Arts	3-7
0603 581	The Broadcast Media and Mass Culture	3
0603 582	Techniques of Broadcast Communication	3
0603 599	Independent Study	By arrangement
0603 600	Thesis	4
1506 511	Revolutionary Rhetoric	3
1506 519	Seminar in Rhetorical Criticism	3
1506 533	Lecture and Lecture Recital	1

In addition, the graduate student in this concentration should select six to nine hours of related graduate courses from the total College offerings, with the advisor's permission. Prerequisites required in these courses can be taken as free electives.

III. Free electives 6
Can be utilized as necessary for graduate course prerequisites and/or professional education courses.

IV. Additional departmental requirements;
1. Written comprehensive examination.
2. Demonstration of oral competence: candidate must demonstrate proficiency in handling speech in a public situation.

Minimum with thesis: 32 semester hours

Minimum without thesis: 34 semester hours

In addition to the courses described below, the department offers special workshops and seminars presented by working professionals from the various fields. Graduate students should consult with their advisor to take advantage of these opportunities.

SPEECH AND THEATRE

Course Descriptions

**Semester
Hours**

I 0603 500 INDEPENDENT STUDY 1-3

The undertaking of course work in one of the regularly listed catalog courses of the department of Speech and Theatre in a depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the graduate advisor for speech and theatre prior to registration. Independent study may be elected more than once during the graduate program.

I 0603 510 TELEVISION PRODUCTION I 3

Insight and experience in the production of in-studio programs for television. Attention on commercial production, news, interviews, demonstrations, lighting and graphics.

Prerequisite: Open to majors or by instructor's permission.

I 0603 511 TELEVISION PRODUCTION II 3

Group activity in the preparation and presentation of broadcast materials including music programming, drama, interviews and educational school programming.

Prerequisite: I 0603 510.

I 0603 580 INTERNSHIP IN PUBLIC MEDIA ART 3-7

Off campus practicum assignments at radio and television broadcasting facilities and other learning sites. Broad, balanced and locally supervised experience, by arrangement.

Prerequisite: Majors only. Application through the department prior to registration.

I 0603 581 THE BROADCAST MEDIA AND MASS CULTURE 3

Influences and effects of the broadcast media on society; policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change. Open to all graduate students.

I 0603 582 TECHNIQUES OF BROADCAST COMMUNICATION 3

Techniques and ethics in the production of informative, entertainment, persuasive and public relations material for mass public consumption. Open to all graduate students.

I 0603 585 PROSEMINAR IN BROADCASTING 3

A study of the evolution of the broadcast industry's present structure and operation, as primarily influenced by political and economic forces. The course will also discuss contemporary issues that may cause structural change in the industry.

I 0603 599 INDEPENDENT STUDY 1-3

The independent study of an area of public media that results in extended knowledge of the discipline. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Independent study may be elected more than once during the graduate program.

I 1007 500 INDEPENDENT STUDY 1-3

Individual projects in theatre that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies. The nature of the course permits advanced graduate students to pursue areas of theatre not covered by present offerings.

I 1007 504 CONTEMPORARY THEATRE PRACTICE 3

The status and practices in today's professional theatre: writing, playing, staging and producing problems and trends of current theatrical fare. Supplemented by theatrical personnel and visits to professional producing groups in the metropolitan area. Open to all graduate students.

I 1007 508 INTERNSHIP IN DRAMATIC PRODUCTION 3-7

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theatre, on or off campus. Student assists director, designer, crew chief or technical supervisor. Contracts drawn by student, college sponsor and off-campus supervisor.

Prerequisite: Majors only. Application through the department before registration.

I 1007 511 FORMS OF TRAGEDY 3

The "evolution" of tragic theory as it manifests itself in each of the periods of theatre history and dramatic criticism. Included in the examination is an evaluation of representative tragic playscripts in terms of style, structure, "tragic devices," content, and performance.

I 1007 512 FORMS OF COMEDY 3

Historical survey of comic theory from Aristotle to Albee, with special emphasis on principles and practices of comic theory as revealed in selected playscripts. The basic approach is lecture by historical periods—from classical to modern—followed by reading and discussion of representative playscripts from each historical period.

I 1007 513 MODERN AND CONTEMPORARY THEATRE HISTORY 3

Theatrical history associated with western culture from 1890 to the present; the contemporary theatrical scene and its direct heritage. Some attention to American theatre but major emphasis on British and continental developments. Open to all graduate students with a background in dramatic literature.

I 1007 517 THEATRE CRITICISM 3

Standards and values, both personal and historical, by which plays are judged. Attendance at community and professional productions may be required. Open to all graduate students with a background in dramatic literature or theatre production.

I 1007 525 ADVANCED ACTING WORKSHOP 3

A survey of acting styles from the classical to the modern, highlighting periods of style that include Elizabethan, improvisation, commedia, and method. The basic assignments of the course are scene study, group scene presentations, and a final group project. Secondary readings in acting theory are assigned, and it is assumed that advanced drama students will refine their individual acting techniques. The nature of the class is discussion, play analysis and in class acting presentations.

I 1007 535 ADVANCED DIRECTING WORKSHOP 3

Directing repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook.

Prerequisite: Majors only or by instructor's permission.

I 1007 545 SCENIC DESIGN I: THE LEGITIMATE THEATRE 3

Stage design as related to the play, director and audience; styles of design, perspective sketch and stage model in planning stage setting. Stage construction techniques used to demonstrate the necessity of scene design in planning stage production.

Prerequisite: Majors only or by instructor's permission.

I 1007 546 SCENIC DESIGN II: PERFORMING ARTS 3

Design problems inherent in musical comedy, opera and dance. Physical qualities of space, arena and proscenium staging and the challenges of each. Projects will involve both lighting and scenic design. Open to graduate students with a background in the performing arts.

I 1007 554 STAGE LIGHTING DESIGN 3

Introduction to light from pragmatic and esthetic points of view. Functions and qualities as a design medium, types of control and instrumentation available to designer. Development of several lighting designs.

Prerequisite: Majors only or by instructor's permission.

I 1007 575 SEMINAR COSTUME DESIGN AND CONSTRUCTION 3

Costume as one visual element of design in the theatre. Research procedure, design theory, construction techniques, use of materials.

Prerequisite: Majors only or by instructor's permission.

I 1007 580 THEATRE MANAGEMENT 3

The theatre as a business enterprise: production units; box office procedures; standard contractual arrangements; unions and their regulations; subscription management. Manager as a community relations specialist; publicity; the theatre as a community resource. Open to graduate students with a background in performing arts.

I 1506 500 INDEPENDENT STUDY SPEECH-THEATRE 1-3

Selected topics in the areas of speech, theatre history, criticism, literature and design are pursued by advanced graduate students in consultation with the graduate faculty. The area for detailed investigation is selected, research and analysis is made, and the student submits a formal research paper to complete the assignment. There are weekly meetings with the instructor to provide guidance, and the student is also responsible for an annotated bibliography.

I 1506 501 SURVEY OF RESEARCH METHODS 3

Research methods relating to rhetorical theory, public address, interpersonal communication, theatre history, dramatic production and contemporary theatrical idiom. Historical, critical, descriptive, quantitative and experimental models and methodologies. Individual student needs and interests considered.

Prerequisite: Majors only.

I 1506 503 ADVANCED VOICE AND SPEECH IMPROVEMENT 3

To refine the voice and diction patterns of the advanced student. Provides student with techniques of evaluating and improving speech of others in a practical setting.

Prerequisite: Majors only or by instructor's permission.

I 1506 509 SPECIAL PROBLEMS IN SPEECH AND THEATRE 3

Individual problems in theatre, speech and mass communication. Reports, papers, panel discussion and experimentation.

I 1506 533 LECTURE AND LECTURE RECITAL 1

Study of professional work on the public platform climaxed by a lecture or recital of a professional nature.

Prerequisite: Majors Only.

I 1506 534 GRADUATE READINGS IN SPEECH AND THEATRE 3

Selected topics of an advanced nature that require research and library use of primary and secondary sources to advance knowledge in the areas of speech or theatre. Individual topics are selected with approval of faculty member. Student does independent research that results in a significant contribution to the field of study chosen.

I 1506 560 INTERNSHIP-ORAL COMMUNICATION 3-7

Off-campus practicum assignments range from serving on campaign speaker's or public speaker's speech staff to coaching students and/or conducting forensic tournaments. Broad, balanced and locally supervised experience, by arrangement. Application through the department prior to registration.

I 1506 565 ADVANCED ORAL INTERPRETATION 3

Techniques in interpretation of poetry and prose; analysis and presentation of types of literary genres (short story, ballad, essay, narrative, sonnet, etc.) For use in classroom and special programs. Open to all graduate students.

I 1506 599 INDEPENDENT STUDY 1-3

Individual projects in speech that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies or position papers. The nature of the course permits advanced graduate students to pursue areas of speech not covered by present offerings.

I 1506 600 THESIS-SPEECH AND THEATRE 4

Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project. Student should register for the semester in which work will be completed. Written permission for registration from the graduate advisor is required.

NON-DEGREE POST-BACCALAUREATE POST MASTER OF ARTS APPROVED CERTIFICATION PROGRAMS

Chairperson: Dr. Catherine Becker, Department of Curriculum and Teaching

Certification Advisor: Ms. Marcella P. West

I. TEACHER CERTIFICATION

A student with a baccalaureate degree may receive a New Jersey teaching certificate, and a fully certified teacher may obtain additional teaching field endorsements or advanced certification while attending Montclair State College. (See Certification Areas following this section.) Students planning to enter the Approved Teacher Certification Program must follow the prescribed admission procedures described below. Upon successful completion of an approved program, the student will be recommended to the New Jersey Department of Education for a teaching certificate. Students interested in teaching outside of New Jersey should seek information from the appropriate state authorities before contacting the certification advisor or any departmental advisor.

ADVISEMENT

All general questions regarding certification and requests for specific information concerning procedures and courses applicable toward approved initial certification programs available at Montclair State College should be directed to Ms. Marcella P. West, (201) 893-4139 in the School of Professional Studies. Students seeking counseling may make an appointment with the certification advisor. Students should call ahead for an appointment.

ADMISSIONS

Those interested in the Post-Baccalaureate/Post M.A. Approved Certification Programs may obtain an application from the College Admissions Office, (201) 893-5182 or 5165, or upon request, from the certification advisor's office. Upon acceptance, a student is assigned to a certification advisor who will work out with the faculty (teaching-field) advisor a formal program of studies. Continuous advisement is available and expected for students in the Approved Teacher Certification Programs.

The Office of Admissions requires the following from each applicant to the Approved Teacher Certification Program: (1) completed non-degree post-baccalaureate application for admission, (2) copy of teaching certificate where appropriate, and (3) copy of official transcript from each college or university attended.

The certification advisor receives the completed application file from the Office of Admissions. Using departmental forms, the advisor requests three recommendations from individuals who are aware of the applicant's scholastic aptitude and character, and who are able to provide evidence of the applicant's interest in community affairs and teaching. In addition, a demonstration of competence in speech is required before full admission to a teacher certification program. Each department has specific requirements, such as grade point average, which have been determined according to College procedures and which are followed in determining eligibility for admission.

TEACHER CERTIFICATION PROGRAM REQUIREMENTS

Requirements for certification are in the process of revision. Students are urged to contact the certification advisor to verify requirements. Requirements listed in this catalog are subject to change without notice.

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Admissions and Retention, 003 Chapin Hall.

General Education

Academic background requires approximately sixty semester hour credits in General Education including study in at least four of the following areas: English, Mathematics, Science, Social Science, Fine and Practical Arts, Foreign Languages, Music and Philosophy.

Professional Education

	Semester Hours
A. Prerequisites	
2001 101 General Psychology I-Human Growth & Development	3
0829 200 Initial Field Experience	1
0829 410 Intermediate Field Experience in Education	1-3
(Speech Proficiency Requirements)	
Details provided by Education Advisor	
(Physiology/Hygiene Requirements)	
B. Professional sequence	
Major Departmental Methods Course	3
2001 200 Education Psychology	3

0829 400	Teacher, School and Society	3
0821 520	Development of Educational Thought	3
0829 411	Supervised Student Teaching or	8
0829 414-5	In-Service Supervised Teaching	8
	Co-requisite with all Student Teaching Experiences	
0829 401	Senior Field Experience and	1
0829 402	Seminar in Professional Education	1
*0829 435	Effective Teaching/Productive Learning	2
	*Major Seminar	1

C. Teaching Field (Must be selected with departmental approval)

Note:

- 1) The two field experience courses must be completed prior to the semester in which Student Teaching is desired.
- 2) All applicants filing for admission to the Approved Certification and/or M.A.T. Programs must fulfill the course requirement in the Human and Intercultural Relations area for initial Teacher Certification. The course taken to fulfill this requirement must be selected from the approved courses published each semester by the Registrar in the Schedule of Courses Booklet for registration.

D. Supervised Student Teaching

Students who have been admitted to Teacher Education and who are eligible for Student Teaching are required to file an application during the semester prior to the one in which Student Teaching is desired. Application procedures must be completed by September 15 for Student Teaching in the following Spring semester; March 15 for Student Teaching in the following Fall semester. All appropriate departmental and professional education courses must be completed prior to filing the application for Student Teaching. This normally includes 12 semester hours completed at Montclair State College, including methods in the teaching field.

I. Certification Areas

- A. Business Education: General Business Studies and Accounting, General Business and Secretarial Studies, General Business and Distributive Education
- B. Communication Sciences and Disorders: Speech Correction, Deaf and Hard of Hearing, Teacher of the Handicapped
- C. English
- D. Art
- E. Foreign Languages (French, German, Italian, Latin, Russian*, Spanish)
- F. Health and/or Physical Education
- G. Home Economics
- H. Industrial Arts: Industrial Arts (academic background), Industrial Arts (experience background), Vocational/Technical Education
- I. Mathematics
- J. Music
- K. Nursery School Education-preschool, Kindergarten
- L. Science (Biology*, Chemistry*, Geoscience*, Physics*)

- M. Social Studies
- N. Speech and Theatre

II. Advanced Certification (Post-Masters)

State certification is available in the following non-teaching educational specializations:

- A. Administration and Supervision: Supervisor (MA + 15 semester hours in appropriate course work), Principal, Superintendent
- B. Learning Disabilities Teacher Consultant
- C. Student Personnel Services
- D. Educational Media Specialist
- E. Reading Specialist

III. Other Fields/Endorsements

Non-degree programs leading to state certification are available in the following areas:

- A. Associate Media Specialist
- B. Bilingual/Bicultural
- C. Coordinator Industrial Education
- D. Reading*
- E. Psychology*
- F. School Business Administrator
- G. School Psychologist
- H. School Social Worker
- I. Teacher-Coordinator, Cooperative Vocational-Technical Education
- J. TESL (Teaching of English as a Second Language)*

*Available for second teaching fields only.

EDUCATIONAL PLACEMENT

The Office of Student Teaching also offers an educational placement service. Students completing at least 12 credits at Montclair State College are eligible to register for this service. Further information can be secured from Mrs. Beverly McHugh, Director of Student Teaching and Educational Placement, (201) 893-4262.



DIRECTORY

GRADUATE ADVISORS

	Office	Tele.
Administration and Supervision: <i>Dr. Anne C. Castens</i>	Chapin Hall 102	(201) 893-5183
*Educator Trainer (Training Personnel)		
Adult Continuing Education: <i>Prof. Raymond J. Ast, Jr.</i>	848 Valley Road	4355
Biology: <i>Dr. Larry Cribben</i>	Mallory Hall 252D	5107
Business Administration: <i>Dr. Harold Flint, MBA director</i>	Morehead Hall 103	4306
*Accounting		
*Business Economics		
*Finance		
*Management		
*Marketing		
*Quantitative Analysis		
Business Education: <i>Dr. Albert Rossetti</i>	College Hall 302	7033
Chemistry: <i>Dr. Joseph F. Becker</i>	Richardson Hall 345	7166
Communication Sciences and Disorders		
*Audiology: <i>Dr. Michael Lindenman</i>	Speech Building 102	4226
*Early Childhood Special Education: <i>Dr. Joseph Attanasio</i>	Speech Building 105	4232
*Hard of Hearing and Deaf: <i>Dr. Michael Lindenman</i>	Speech Building 102	4226
*Learning Disabilities: <i>Dr. Warren Heiss</i>	Speech Building 103	4227
*Speech-Language Pathology: <i>Dr. Elaine Barden</i>	Speech Building 112	4227
<i>Dr. Gerald Woolf</i>	Speech Building 101	4227
Computer Science: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
Counseling and Guidance		
*Human Services: <i>Dr. Arlene King</i>	Chapin Hall 318	5175
Educational Psychology: <i>Dr. Moira K. LeMay</i>	Russ Hall 13	7387
*Behaviorally Disturbed: <i>Dr. Walter R. Duryea</i>	Russ Hall 232	7375
*Human Sexuality: <i>Dr. Moria K. Le May</i>	Russ Hall 13	7387
English and Comparative Literature: <i>Dr. Lee Khanna</i>	Partridge Hall 467	7324
Environmental Studies: <i>Dr. W. Augustus Rentsch</i>	Russ Hall 122	4188
*Environmental Education		
*Environmental Health		
*Environmental Management		
*Environmental Science		
Fine Arts: <i>Prof. Patricia Lay</i>	Calcia Fine Arts Bldg. 121	7294
*Art History		
*Fine Arts Education		
*Studio		
*Visual Arts		
French: <i>Prof. Madeleine Sergent</i>	Partridge Hall 420	4283
Geoscience: <i>Dr. Charles L. Hamilton</i>	Mallory Hall 252N	7273
Health Education: <i>Dr. Harry H. Hoitsma</i>	College Hall 305	4154
Home Economics: <i>Dr. Katharine B. Hall</i>	Finley Hall 111	4171
*Family Relations/Child Development		
*Home Economics Education		
*Home Management/Consumer Economics		
Industrial Studies: <i>Dr. George A. Olsen</i>	Finley Hall 216	4161
Mathematics: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
*Computer Science		
*Mathematics Education		
*Pure and Applied Math		
*Statistics		
*Area of Concentration		

GRADUATE ADVISORS

Music: *Dr. Donald Mintz*

*Music Education: *Dr. Jack Sacher*

*Performance

*Theory Composition

Physical Education: *Dr. Ree K. Arnold*

Psychology: *Dr. Moira K. LeMay*

*Industrial and Organizational Psychology

Reading: *Dr. Joseph P. Brunner*

Dr. Maria Schantz

School Psychology: *Dr. Joan Silverstein*

Social Sciences: *Dr. Richard J. Barker*

*Anthropology: *Dr. Bertha B. Quintana*

*Economics: *Dr. Harold Flint*

*Geography: *Prof. Bertrand P. Boucher*

*History: *Dr. Richard J. Barker*

*Political Science: *Dr. William Batkay*

*Sociology: *Dr. Barbara Chasin*

*Urban Studies: *Prof. Bertrand P. Boucher*

Spanish: *Dr. Robert McCormick*

Speech and Theatre: *Prof. Karl Moll*

*Public Media Arts (Broadcasting)

*Speech/Theatre Education

*Technical Theatre, Acting and Directing

Teaching: *Dr. Susie Boyce*

*Teaching Middle School Philosophy:

Dr. Ann Margaret Sharp

Dr. Matthew Lipman

*Area of Concentration

Office

Tele.

McEachern Music Building 1	(201) 893-7218
McEachern Music Building 1	7220
Panzer School Center	7090
Russ Hall 13	7387
College Hall 105	4247
College Hall 105	4247
Russ Hall 230	7223
Russ Hall 213	5261
Russ Hall 219	4119
Russ Hall 402	7403
Russ Hall 309	5259
Russ Hall 213	5261
Russ Hall 326	4238
Russ Hall 316	7224
Russ Hall 309	5258
Partridge Hall 428	7538
Life Hall 126-K	7344
Chapin Hall 214	7201
IAPC Trailer	4277
IAPC Trailer	4277

CHAIRPERSONS/DIRECTORS

Office

Tele.

Adult Continuing Education: *Prof. Raymond J. Ast, Jr.*

Anthropology: *Dr. Bertha A. Quintana*

Biology: *Dr. J. Michael McCormick*

Business Administration: *Dr. Harold Flint, MBA director*

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Finance and Quantitative Methods:

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English and Comparative Literature:

Dr. Rita Jacobs

Environmental, Urban and Geographic Studies:

Prof. Bertram Boucher

Fine Arts: *Dr. Wendy Oxman*

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Russ Hall 219	4119
Mallory Hall 252A	4397
Morehead Hall H-103	4306
Morehead Hall 209A	4174
Russ Hall 208	5255
Morehead Hall 203C	4381
Morehead Hall 208A	4280
Morehead Hall 210A	4254
College Hall 302	4269
Richardson Hall 354	5140
Speech Building 105	4232
Chapin Hall 318	5175
Chapin Hall 218	5187
Chapin Hall 102	5183
Partridge Hall 408	4249
Russ Hall 308	5258
Calcia Fine Arts Bldg. 110	4307

French: *Prof. Madeleine Sergent*
 Geoscience: *Prof. Richard H. Hodson*
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 Music: *Dr. Ting Ho*

New Jersey School of Conservation:

Dr. John J. Kirk

(201) 948-4646; (201) 893-5144

Physical Education, Recreation, and Leisure Studies:

Dr. Jerry Dickason

Political Science: *Dr. William Batkay*

Psychology: *Dr. Roland Siiter*

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Speech and Theatre: *Dr. Gerald Ratliff*

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Richardson Hall 252	4166
College Hall 305	4154
Russ Hall 213	5261
Finley Hall 111	4171
Finley Hall 216	4161
Richardson Hall 271	5132
McEachern Music Building 7	5228
	5144
Branchville, NJ	201-948-4646

Panzer School Center	5253
Russ Hall 326	4238
Russ Hall 226	5201
Russ Hall 313	5263
Partridge Hall 416	4285
Life Hall 126-G	4217

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MONTCLAIR STATE COLLEGE

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ACADEMIC CALENDAR

	1987-1988	1988-1989
Fall Semester		
Registration/Orientation	Aug. 24, 25, 26	Aug. 24, 25, 26
Evening Registration	Aug. 24, 25	Aug. 22, 23
Classes	Sept. 1 - Nov. 25	Sept. 1 - Nov. 23
Labor Day Holiday	Sept. 5, 6, 7	Sept. 3, 4, 5
Thanksgiving Holiday	Nov. 26-29	Nov. 24-27
Classes	Nov. 30-Dec. 16	Nov. 28-Dec. 16
Examination Period	Dec. 17-23	Dec. 17-23
Winter Session		
Late Registration	Jan. 4	Jan. 3
Classes	Jan. 4-22	Jan. 3-20
Spring Semester		
Registration/Orientation	Jan. 19, 20, 21	Jan. 17, 18, 19
Evening Registration	Jan. 19, 20	Jan. 17, 18
(If the College is closed because of inclement weather during this period, the Registration Schedule moves forward by one day.)		
Classes	Jan. 25-Mar. 27	Jan. 23-Mar. 19
Spring Recess	Mar. 28-Apr. 3	Mar. 20-26
Classes	Apr. 4-May 16	Mar. 27-May 15
Examination Period	May 17-23	May 16-22
Commencement	May 24	May 24
Summer Sessions		
Registration	May 26, June 6, 7	May 25, June 5, 6
Pre-Session	May 31-June 10	May 30-June 9
Eight-Week Session	June 13-Aug. 4 (No Friday Classes)	June 12-Aug. 3 (No Friday Classes)
Six-Week Session	June 27-Aug. 4 (No Friday Classes)	June 26-Aug. 3 (No Friday Classes)
Holiday	July 4	July 4
Post-Session	Aug. 8-19	Aug. 7-18

The College reserves the right to modify the Academic Calendar.

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MASTER OF ARTS

Administration and Supervision

- *Educator Trainer (Training Personnel)
- Supervisor/Principal Certification

Biology

Business Education

Chemistry

Communication Sciences and Disorders

- *Audiology
- *Early Childhood Special Education
- *Learning Disabilities
- *Speech-Language Pathology

Computer Science

Counseling and Guidance

- *Human Services

Educational Psychology

English and Comparative Literature

Environmental Studies

- *Environmental Education
- *Environmental Health
- *Environmental Management
- *Environmental Science

Fine Arts

- *Fine Arts Education
- *Studio
- *Studies in the Visual Arts

French

Geoscience

Health Education

Home Economics

- *Family Relations/Child Development
- *Home Economics Education
- *Home Management/Consumer Economics

**Area of Concentration*

***Please refer to the index for page numbers on specific programs.*

Industrial Education and Technology

Mathematics

- *Computer Science
- *Mathematics Education
- *Pure and Applied Mathematics
- *Statistics

Music

- *Music Education
- *Performance
- *Theory Composition

Physical Education

- *Coaching and Sports Administration
- *Exercise Sciences
- *Teaching and Administration of Physical Education

Psychology

- *Industrial and Organizational Psychology

Reading

Social Sciences

- *Anthropology
- *Economics
- *Geography
- *History
- *Sociology
- *Urban Studies

Spanish

Speech and Theatre

- *Communication Arts
- *Theatre

MASTER OF ARTS IN TEACHING

- *Initial Certification
- *Middle School Philosophy

MASTER OF BUSINESS ADMINISTRATION**

Business Administration

MASTER OF EDUCATION

**Area of Concentration*

***Please refer to the index for page numbers on specific programs.*



GENERAL INFORMATION

Montclair State College was established in 1908 and is a coeducational college of liberal arts, sciences, pre-professional and professional programs. The first Master of Arts degrees were awarded in 1933. Along with quality academic programs the College offers extensive cultural and athletic opportunities. There are 475 full-time faculty, 79 percent of whom have doctoral degrees or other appropriate terminal degrees. Montclair State College has been designated as a center of excellence in the fine and performing arts in northern New Jersey. As an equal opportunity institution, Montclair State College seeks applications from all qualified students regardless of race, creed, national origin, or sex.

ACCREDITATIONS AND MEMBERSHIPS

The College is accredited by the Middle States Association of Colleges and Schools. The National Council for the Accreditation of Teacher Education has granted accreditation for the Master of Arts in Teaching Program in the Department of Curriculum and Teaching, the School Principal Program in the Department of Educational Leadership, and the Guidance Counselor Program in the Department of Counseling, Human Services and Guidance.

Other academic accreditations include the American Home Economics Association (Department of Home Economics, School of Professional Studies), National Association of Schools of Art and Design (Department of Fine Arts, School of Fine and Performing Arts), National Association of Schools of Music (Department of Music, School of Fine and Performing Arts) and National Association of Schools of Theatre (Department of Speech and Theatre, School of Fine and Performing Arts). In addition, the undergraduate minor in Paralegal Studies offered by the Center for Legal Studies, School of Humanities and Social Sciences, have been approved by the American Bar Association; programs offered by the Department of Chemistry, School of Mathematical and Natural Sciences, have been approved by the American Chemical Society; and the undergraduate program in Music Therapy offered by the Department of Music, School of Fine and Performing Arts, has been approved by the National Association for Music Therapy.

The College is a member of the American Assembly of Collegiate Schools of Business, American Association of Colleges for Teacher Education, American Association of State Colleges and Universities, American Council on Education, Association of American Colleges, Council of Graduate Schools in the United States, New Jersey Association of Colleges and Universities, New Jersey Association of Colleges for Teacher Education, North American Association of Summer Sessions and Northeastern Association of Graduate Schools. Woman graduates of the College are accepted for membership in the American Association of University Women.

FUNCTIONS

Montclair State College serves three broad functions: instruction, research and service.

Instruction: The College offers graduate programs for the preparation of professional personnel in the areas of administration, biology, business education, chemistry, geoscience, audiology, art, computer science, counseling and guidance, educational psychology, environmental studies (education, management, science), learning disabilities, health, home economics, industrial studies, mathematics, music, physical education, psychology, reading, special education, speech pathology, speech and theatre arts, among others. It is possible also to obtain traditional advanced liberal arts training in English and comparative literature. French, Spanish and the social sciences. Continuing education both on and off campus for other than degree purposes is also part of the function.

Research: Research and scholarship by the faculty and staff are encouraged by the College to constantly add to the knowledge on which degree programs are based, and to contribute to the general advancement of human knowledge.

Service: The service function involves consultancies to business, education and government agencies. Included also are such activities as sponsored workshops, publications, surveys and research, and participation as committee members and officers in appropriate local, state and national organizations.

ACADEMIC ORGANIZATION

Montclair State College's academic organization includes five schools. Courses are offered through the Schools of Business Administration, Fine and Performing Arts, Humanities and Social Sciences, Mathematical and Natural Sciences, and Professional Studies.

The Graduate Council is the primary All-College body for the development of graduate policy and curriculum advisement. Its decisions and recommendations are made directly to the Vice President for Academic Affairs. Consistent with policies established by the Board of Trustees, the Graduate Council:

- (1) recommends general graduate admission requirements,
- (2) recommends guidelines for the admission of students to graduate programs,
- (3) recommends guidelines for the admission of faculty to graduate faculty status,
- (4) reviews and makes recommendations about new graduate programs or any revisions in graduate programs,
- (5) initiates discussion on and/or reacts to any and all matters affecting graduate faculty, students and programs.

Voting members of the Council include two School Deans appointed by the Vice President for Academic Affairs; two elected faculty from each of the Schools of Business Administration, Fine and Performing Arts, and Mathematical and Natural Sciences; four elected faculty from each of the Schools of

Humanities and Social Sciences, and Professional Studies; and one graduate student elected from each School.

Ex officio (non-voting) members of the Council include the Director of Graduate Studies or a representative from the Office of the Associate Vice President for Academic Affairs, the three School Deans not appointed as voting members, the Associate Director of Graduate Studies, the Director of the Library, and a representative of the Faculty Bargaining Unit.

From its voting membership, the Council elects a chairperson and secretary.

SCHOOL OF BUSINESS ADMINISTRATION

Dean: Suresh A. Desai, Ph.D.

Consisting of six separate departments,

Accounting, Law and Taxation

Business Education and Office Systems Administration

Economics

Finance and Quantitative Methods

Management

Marketing

the School of Business Administration provides the following graduate degree opportunities:

Master of Business Administration (MBA)

Master of Arts in Business Education

Master of Arts in Social Science: Concentration in Economics

MASTER OF BUSINESS ADMINISTRATION

The goal of the Montclair MBA is to prepare management generalists who have the knowledge, techniques and attitudes to analyze complex issues, establish logical goals, evaluate alternatives, form reasoned judgments, and effectively implement chosen options. While the development of analytical capacities is critical, the program's structure emphasizes the development of capacities that are tempered by a concerned awareness of obligations to the greater social environment.

The program stresses the theoretical foundations of management oriented disciplines, practical applications of research findings, and current managerial practices. This blend of theory and prevalent practice builds a strong foundation for immediate application as well as post-graduate professional growth.

MASTER OF ARTS IN BUSINESS EDUCATION

The Master of Arts program in business education prepares teachers for administrative, supervisory, specialized work, and master teaching in the field of business education. In order to attain these objectives, the program design offers considerable flexibility enabling candidates to explore advanced areas of study in accordance with their own background, experience, achievement, and professional aspirations. With careful course selection and planned use of the

program's free electives, candidates may qualify for New Jersey certification in Administration and Supervision in Business Education and/or Cooperative Office Education.

MASTER OF ARTS IN SOCIAL SCIENCE: CONCENTRATION IN ECONOMICS

The Master of Arts in Social Science: Economics Concentration provides a study of economic theory within a programmatic framework that emphasizes the importance and interdisciplinary nature of the social sciences. Where appropriate, business oriented applications are developed; however, the primary purpose of the program is to develop a knowledge of economics which enhances the student's understanding of the formulation, evaluation and implementation of public decision making. Although an undergraduate major in Economics is not a prerequisite, candidates must present an undergraduate record with at least 30 semester hours in the social sciences and/or history. Candidates who do not meet minimum requirements may be required to enroll in certain prerequisite courses which do not provide graduate credit.

SCHOOL OF FINE AND PERFORMING ARTS

Dean: Donald A. Mattran, M. Mus.

Montclair State College is a designated center of influence for the fine and performing arts. Its School of Fine and Performing Arts offers graduate programs in fine arts, music, speech, theatre and communications. In addition, the School includes a Music Preparatory Division, which offers instruction to children from age 3 through high school, and the office of Cultural Programming which presents major dance, music, theatrical and literary events. The School also coordinates and supports three major art galleries.

The School of Fine and Performing Arts provides professional training and education for students seeking careers in the arts, education, public service or management. The School presents cultural events and offers courses and experiences in the arts for the enrichment of campus and community life. The resources of the School are taken to the community in the form of chamber music, dance concerts, lectures and demonstrations. The School seeks to stimulate public interest in the arts and to encourage research, creative work, and experimentation in the arts.

Departments and programs within the School are:

Fine Arts

Fine Arts Education*

Studio*

Studies in the Visual Arts*

Music

Music Education*

Performance*

Theory Composition*

Speech and Theatre

Communication Arts*

Theatre*

**Area of Concentration*

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Dean: Philip S. Cohen, Ph.D.

Graduate programs in the School of Humanities and Social Sciences are designed to accomplish four objectives:

- (1) to provide the opportunity for the student to acquire advanced knowledge in one of its major areas of instruction,
- (2) to acquaint the student with the interrelatedness of the various fields within the Humanities and Social Sciences as well as their relationship to other disciplines,
- (3) to familiarize the student with the particular methodology and problems of his or her field,
- (4) to provide the student with the background to do creative and independent work and research during and after his or her graduate career.

The School of Humanities and Social Sciences comprises a number of disciplines, the boundaries of which are constantly changing and expanding. At the same time, research within the disciplines is becoming more specialized. The necessity for constant study, therefore, presses upon everyone involved in these areas whether he or she is teaching or working in government, industry or the professions.

The departments within the School of Humanities and Social Sciences provide programs of an advanced character which reflect sound developments in scholarship in various fields. They also offer advanced courses for teachers who wish to improve their preparedness for specialized secondary school subjects.

All of the programs provide excellent preparation for those wishing to go on to more advanced degrees.

Departments and programs within the School are:

Anthropology

Social Sciences

Communication Sciences and Disorders

Audiology*

Early Childhood Special Education*

Learning Disabilities*

Speech-Language Pathology*

Economics

Social Sciences

English

English and Comparative Literature*

Environmental, Urban and Geographic Studies

Program in Environmental Studies

Environmental Education*

Environmental Health*

Environmental Management*

Environmental Science*

**Area of Concentration*

- Program in Social Sciences
 - Geography*
 - Urban Studies*
- French
- History
 - Social Sciences
- Psychology
 - Program in Educational Psychology
 - Program in Psychology
 - Industrial and Organizational Psychology*
 - School Psychology Certification
- Sociology
 - Social Sciences
- Spanish/Italian
 - Spanish*

SCHOOL OF MATHEMATICAL AND NATURAL SCIENCES

Dean: Richard A. Lynde, Ph.D.

The graduate programs offered within the School of Mathematical and Natural Sciences are characterized by a balance between a theoretical and applied approach to the study of advanced topics. The pursuit of new knowledge via research is the logical conclusion to a graduate program, and students, especially those in the natural sciences, are encouraged to elect a thesis option. The programs are flexible enough to meet the need of individuals in industry, government or education as well as those intending to continue their studies in Ph.D. programs or professional schools.

The continual, and sometimes rapid, evolution of the mathematical and natural sciences is reflected in course content and facilities, which provide exposure to both fundamental concepts and their latest expression.

Departments and programs within the School are:

- Biology
- Chemistry
- Geoscience
- Mathematics and Computer Science
 - Program in Computer Science
 - Program in Mathematics
 - Computer Science*
 - Mathematics Education*
 - Pure and Applied*
 - Statistics*

**Area of Concentration*

SCHOOL OF PROFESSIONAL STUDIES

Dean: Nicholas M. Michelli, Ed.D.

The School of Professional Studies includes eight departments, each of which offers the Master of Arts degree in a variety of fields leading to and strengthening skills needed for professional careers in private industry, government agencies, non-profit organizations, and public and non-public schools.

The School has responsibility for coordinating the non-degree post-baccalaureate teacher certification program. A Master of Arts in Teaching (M.A.T.) program is also available to those seeking initial certification. The School has a commitment to offering graduate programs to urban school personnel through Project THISTLE, and provides a certification program in alcoholism counseling.

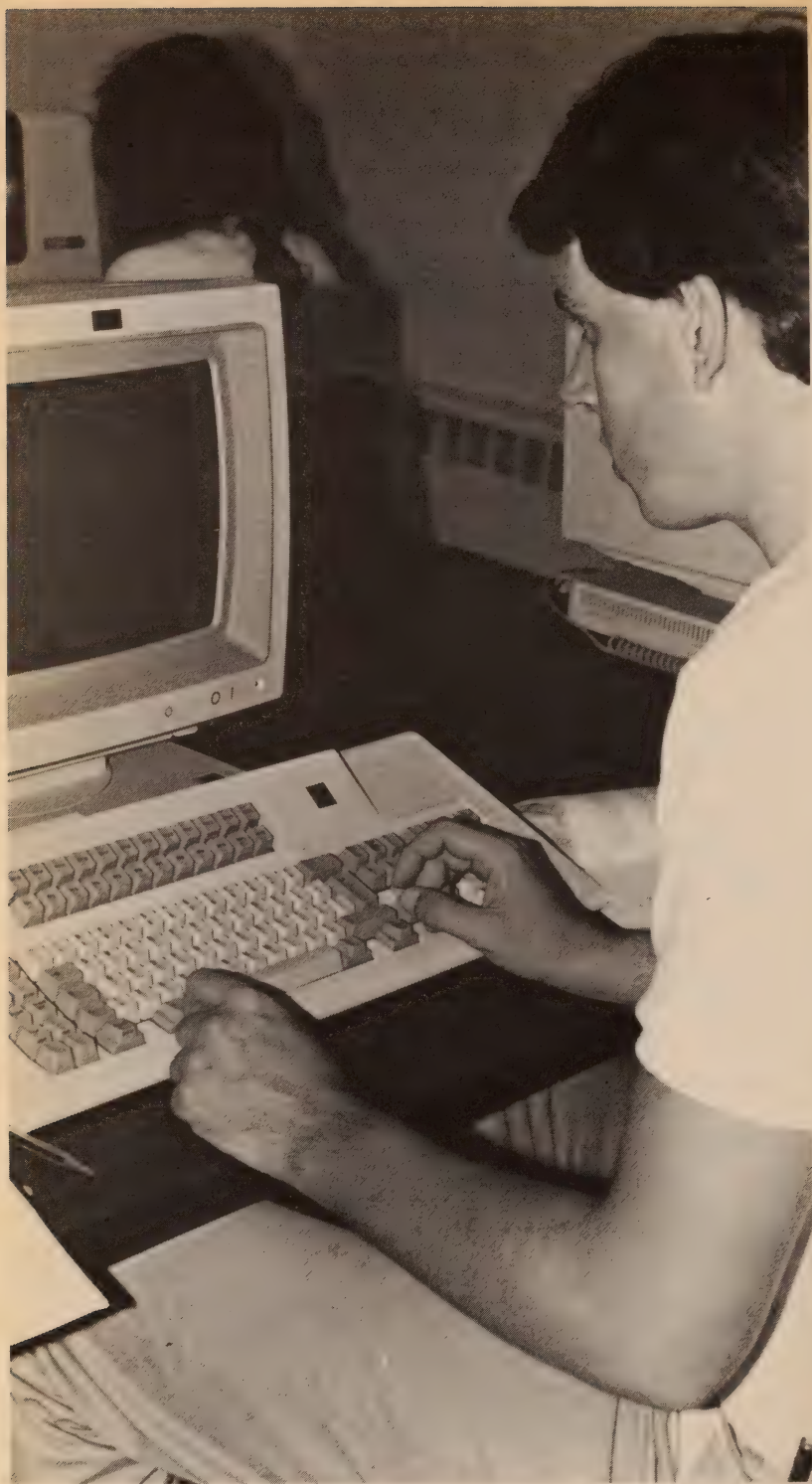
Arrangements can be made to offer graduate programs to employees of public schools and other organizations on site.

In addition, the New Jersey School of Conservation, one of the largest environmental and outdoor education centers in the world, is part of the School of Professional Studies.

Departments and programs within the School are:

- Counseling, Human Services and Guidance
 - Counseling and Guidance
 - School Social Work
 - Human Services*
- Curriculum and Teaching
 - M.A.T.
 - Middle School Philosophy*
 - M.Ed.
 - Post-baccalaureate Certification
- Educational Foundations
- Educational Leadership
 - Administration and Supervision
 - Educator Trainer Program (Training Personnel)*
 - Reading
 - Certification Programs for: Media Specialist, Principal,
Supervisor, Reading Specialist
- Health Professions
 - Health Education
- Home Economics
 - Family Relations/Child Development*
 - Home Economics Education*
 - Home Management/Consumer Economics*
- Industrial Studies
 - Industrial Education and Technology
- Physical Education, Recreation and Leisure Studies
 - Physical Education
 - Coaching and Sports Administration*
 - Exercise Sciences*
 - Teaching and Administration of Physical Education*

**Area of Concentration*



ACADEMIC FACILITIES

The College is located on a 200-acre campus in Upper Montclair, New Jersey, 14 miles west of New York City. In addition to classrooms and studios, our facilities provide two modern theaters; a recital hall; a theater arts workshop; science and language laboratories; food laboratories; clothing laboratory in Home Economics; auto and power, energy, metals, and plastics laboratories in Industrial Studies; human performance laboratory in Panzer School Center and on-campus housing for approximately 2,000 men and women.

COMPUTER CENTER

The Computer Center provides a wide variety of services to the College Community through the operation of two major facilities. The College Hall location provides services through a Burroughs B1955 computer, and the Richardson Hall location provides services through a DATA100 Remote Job Entry Station and various time sharing terminals. Both locations are connected through high speed communications facilities to the New Jersey Educational Computer Network (NJEEN) where most of the actual computing is performed. NJEEN, a corporation owned by the State Colleges of New Jersey, provides an extensive array of computer services through the operation of an IBM 370/168, and an IBM 3033.

CO-OPERATIVE EDUCATION

Co-operative Education is a unique learning opportunity which integrates classroom studies with a supervised work experience. Participating students receive both transcript credits and financial compensation. A Co-op experience is full-time and continues for a period of six months. To be eligible for a graduate Co-op, students must be fully matriculated and have earned a minimum number of hours of Montclair graduate credit (determined by your department) with a minimum grade point average of 3.0. For more information, contact your graduate advisor or the Co-op Office.

Location: Student Center Annex, 104

Hours: regular: Monday-Friday 8:30 am - 4:30 pm
evening: Thursday open until 7:00 pm

Phone: 893-4407, 4426

CURRICULUM RESOURCE CENTER

The Curriculum Resource Center, located in Chapin Hall, houses a collection of materials for use by teachers, curriculum committees and others engaged in planning educational programs. The Center's collection includes textbooks, curriculum guides from New Jersey schools and schools across the nation, learning activity packages, professional books, computers and computer software. The Center maintains evening hours for the convenience of graduate students and teachers. For further information, contact the Director of Teacher Education at (201) 893-5220.

LABORATORY AND SPECIAL FACILITIES

Extensive well-equipped laboratories support both instruction and research in the mathematical and natural sciences. Specialized facilities and equipment provide opportunities for significant thesis research in a number of areas of current interest.

Studios, workshops, exhibition spaces, performance, practice and rehearsal facilities support the instruction areas in the School of Fine and Performing Arts.

A modern language laboratory serves the needs of students who seek to improve their language skills.

Appropriate facilities are also available for students enrolled in the Experimental Psychology course.

LIBRARY

The Harry A. Sprague Library is housed in a centrally located, attractive modern building. The library is designed to provide ample reading and study areas and easy access to open shelves in pleasant, comfortably furnished surroundings. Combining the best of traditional resources with the latest in non-print communications technology, the three floors of the library form a vast information center.

The library owns more than a million items, with more than 350,000 books on the shelves, 3,000 periodical subscriptions, 35,000 government documents, and more than 850,000 items in non-print media. The Non-Print Media Department has equipment for viewing and hearing a collection of videocassettes, records, audiocassettes, filmstrips, and soundslide sets. As a designated government depository, the library receives and makes available for public use thousands of federal and state publications. This comprehensive collection provides graduate research projects with appropriate support. The library belongs to networks METRO and NJALN which ensure access to other large libraries in the metropolitan area.

Each member of the professional library staff is an expert in both library science and a subject speciality. The Reference librarians are dedicated to helping students learn how to approach research assignments as well as locate information. Hundreds of classes in library instruction are conducted each year by the librarians and are available to all graduate classes. Reference librarians are always available to assist students with individual projects and to answer specific reference questions.

The introduction of computerized technology provides access to the library's holdings through an on-line system. Interlibrary loan uses a computer terminal to quickly locate and send for books and articles that are not in the collection and are needed by students. On-line bibliographic searching is available to students and faculty. While these technological changes are important, the library's primary mission will always be the enhancement and support of the college's educational program through personal attention to each student's individual needs. Telephone (201) 893-4291.

MARINE SCIENCES CONSORTIUM

The facilities of the New Jersey Marine Sciences Consortium, including the field stations at Sandy Hook and Seaville, are available to Montclair State students. The consortium sponsors an extensive summer program of regular and independent study courses in the marine sciences at the graduate level.

MEDIA CENTER

The Center, located in College Hall, provides audio-visual materials, equipment and services for use by faculty and students for classroom instruction and presentation.

Videotaping equipment is available for use by faculty and staff, as is a closed circuit television studio with complementary equipment. Custom graphic and photographic production services exist that include slide copy, slide duplication, transparency production and graphic design. The staff of the Center is available for consultation on audio-visual problems, for demonstration of audio-visual materials and methods, and for special teaching and training in the area of audio-visual education. Telephone (201) 893-4241.

PSYCHOEDUCATIONAL CENTER

The Center has been designed to train graduate students in the areas of audiology, special education, learning disabilities, school psychology and speech language pathology. It additionally serves the community by offering programs that suit the mutual needs of students and clients. The Center operates an assessment component, Communication Disorders Center, Communication Disorders Demonstration Program, Parent/Infant Program, and Music Therapy Clinic on campus.

SPECIAL EDUCATION

The following academic courses of study at Montclair State College prepare graduate students to work with individuals who are experiencing difficulty with communication, learning, or life adjustment: Audiology, Counseling, Human Services and Guidance, Early Childhood Special Education, Learning Disabilities, Physical Education, Recreation and Leisure Studies, Reading, School Psychologist, Speech-Language Pathology, and Teacher of the Handicapped. Consult the index for details about individual programs.

Students enrolled in these courses of study may receive part of their training on campus at the Psychoeducational Center. The Center operates an assessment component, Communication Disorders Center, Communication Disorders Demonstration Program, Parent/Infant Program, and Music Therapy Clinic on campus.

TELEVISION CENTER

A well equipped Television Center is located in Life Hall, Room 117. It takes care of all requests for television equipment and services. On request, the staff will demonstrate television techniques and lend a variety of television equipment to students for special projects. Telephone (201) 893-4341.

ADMISSION AND MATRICULATION

To be admitted to graduate study at Montclair State College, an applicant must have a baccalaureate degree from an accredited college or university in the United States, or its equivalent from a foreign institution of higher education. An applicant must also have an appropriate academic background for the program or degree desired. To be matriculated in a particular degree program, the applicant must be accepted by the department offering that program.

Applicants are evaluated on several criteria (e.g., grade point average, national test scores, recommendations, interviews, essays, portfolios, auditions, etc.) to enable the College to identify those students who demonstrate the greatest promise of scholarly achievement and ability to benefit from their proposed program of study.

To be admitted to the Teacher Education Program, applicants must meet separate criteria beyond those required for admission to graduate study. Initial teaching certification may be gained exclusive of, or in conjunction with a degree program, and a post-certification degree program is also offered. (Please see "Teacher Education Program" in Index.)

Applications/Enrolling in Graduate Classes: Montclair accepts applications at any time of the year and processes them as quickly as possible. However, if matriculation (the development of a detailed scholastic work program) prior to enrollment is important to a student, then the application for graduate admissions should be filed in time for all supporting documents to arrive in the Office of Graduate Studies normally no later than April 1 for Summer Sessions, July 1 for the Fall semester and November 1 for the Spring semester. If a student's file is not completed in time for the semester for which a student has applied, the student may be granted a Permit to Register during the In-Person Registration period (for more information about such permits, see the next two paragraphs).

Students who wish to enroll in graduate courses prior to (or without) matriculating may receive a permit to register by presenting proof of their undergraduate degrees to the Office of Admissions any time prior to the end of the In-Person Registration period for the semester they wish to attend. This permission is valid for only one semester and does not guarantee availability of seats in classes. To attend a subsequent semester a student must file a complete application with all supporting documents. Students who wish to pursue initial teaching certificates may only register for specific courses designated by the Teacher Education office prior to gaining formal admission to the Teacher Education Program.

A maximum of six completed credits may be allowed for degree credit prior to attaining matriculated or deferred matriculated status. This six credit total includes all transfer credits and non-degree credits taken at Montclair. A student must meet all course prerequisites. Successful completion of these 6 semester hours does not guarantee admission into a degree or certification program.

Obtaining Graduate Applications and Graduate Information: To obtain applications contact: The Office of Graduate Studies, College Hall 208, (201) 893-5148.

Whether enrolling as a matriculated, non-matriculated or visiting graduate student, it is *critical* that a student receive advisement prior to registering for courses. For graduate information and/or to be directed to the appropriate advisor contact: *The Office of Graduate Studies*.

GENERAL REQUIREMENTS

Transcript: Two copies of an official transcript must be submitted from each college and university attended.

Graduate Record Examination (GRE): The GRE aptitude test is required of all students applying for admission to a degree program, except for applicants to the MBA program who are required to take the Graduate Management Admission Test (GMAT) and applicants to the Department of Counseling, Human Services and Guidance who are required to take the Miller Analogies Test instead. Some departments also require the GRE advanced test in the applicant's proposed field of study and/or the Miller Analogies Test. Students should check the department statement in this catalog for specific requirements.

Students should make arrangements to have an official notification of their GRE test scores sent directly to the Office of Graduate Studies. Since it generally takes about six weeks for test scores to reach the College, students are advised to take the required test as soon as possible after applying for admission. Information about the GRE may be obtained from the Educational Testing Service, Princeton, New Jersey 08540, or from the Office of Graduate Studies at Montclair State College.

Recommendations: Recommendations from at least two persons who are qualified to evaluate the applicant's promise of academic achievement are required for admission to all degree programs.

Statement of Objective: All students applying for admission are asked to provide a statement outlining their goals and purposes in the graduate study they wish to pursue.

Teaching Certificate: A copy of an applicant's teaching certificate(s) is required of all students seeking admission to a program leading to advanced certification or certification in an additional field.

Acceptance Procedure: Final action on an application cannot be taken until all supporting credentials have been received in the Office of Graduate Studies. However, applicants whose transcript shows conferment of a bachelor's degree will be given permission to register on a non-degree basis.

Applicants who meet the College minimum standards for admission will be advised by letter to arrange a conference with the graduate advisor of the department in which the student wishes to study. The department advisor will evaluate the student's qualifications for acceptance into the program.

Matriculation: Students who are accepted into a degree program will be formally matriculated and given an official work program developed in conference with the graduate advisor. The student will receive official notification of matriculation from the Office of Graduate Studies.

Deferred Matriculation: Applicants with marginal qualifications or inadequate preparation may, upon recommendation of the department, be admitted to study on a conditional basis (deferred matriculation) with the understanding that eligibility for matriculation will be established in a manner prescribed by the department in which the student wishes to matriculate. Course work and other study undertaken to remedy the deficiency or to demonstrate the ability to do graduate-level work may be in addition to the regular program requirements.

Non-Degree Students: Individuals who have a baccalaureate degree and want to enroll in particular courses to satisfy personal interests without reference to matriculation in any degree or certification program may apply for admission as non-degree students. Applications for this status do not require the supporting credentials specified above for degree programs, except for the transcript showing possession of a bachelor's degree and the statement of objectives.

Admission on a non-degree basis does not imply acceptance in or eligibility for matriculation in any degree program.

Admission of Veterans: Veterans seeking admission to a graduate program should apply to the Veterans Administration for a certificate of eligibility and entitlement well in advance of the registration date. These forms may be obtained at the Veterans Office located in Annex E, Room 10.

The Veterans Administration has established certain limitations, particularly with regard to changes in courses. It therefore becomes important that veterans clearly state their educational objectives on all appropriate forms.

To insure that the application is in order, and that the veteran has fulfilled the requirements of the GI bill, the veteran should report during registration to the Veterans' Counselor.

Foreign Applicants: Foreign applicants should obtain an application from the Office of Graduate Studies, and return the completed form to the office at least one month prior to the normal deadline.

As proficiency in spoken and written English is prerequisite to graduate study at Montclair State College, the College requires foreign applicants for whom English is not a native language to take the Test of English as a Foreign Language, administered world-wide by the Educational Testing Service of Princeton, New Jersey. Scores from this test should reach the Office of Graduate Studies no later than the normal deadline.

Qualified Seniors: Montclair State College undergraduates with an academic average of at least 2.67, who are within 16 semester hours of graduation, may take up to six semester hours of graduate work at the 500 level, if prior permission is granted.

In order to be eligible to take graduate courses, a qualified senior must complete the appropriate application, which is available in the Office of Graduate Studies. Qualified undergraduates taking graduate courses for graduate credit must pay appropriate fees and tuition at the regular graduate student rates. Admission of an undergraduate to courses at the graduate level does not imply future acceptance into a graduate degree program.

Visiting Students: Graduate students matriculated at another college may register for courses during In-Person Registration. They must bring with them a form or letter of permission from the institution they are attending stating they are students in good standing. The current Schedule of Courses booklet, available in the Office of the Registrar, should be consulted for further details.

ACADEMIC POLICIES AND REGULATIONS

Course Load: Nine semester hours constitute a full-time course load. It is recommended that a student who is fully employed take no more than six semester hours of course work in any one semester. Graduate assistants are required to carry only six semester hours for full-time status.

Course Numbering and Scheduling: Selected courses numbered from 400 through 499 are senior-graduate courses. They may be taken for graduate credit only with the permission of the graduate advisor in the student's major department and only to the extent approved by regulations governing graduate studies. At this time, no more than 25 percent of courses offered for the Master of Arts degree may be numbered from 400 through 499. Courses numbered below 400 are not acceptable for graduate credit.

Courses numbered 500 and above are open only to graduate students and last-term seniors with prior approval. Courses are scheduled in the late afternoon and evening during the fall and spring semesters. Summer Sessions graduate courses are scheduled both in the day and evening.

Restrictions for Graduate Credit: No credit is granted toward the Master of Arts degree for certain 400 level courses which are required for initial certification.

Courses taken ten or more years prior to the date of the student's matriculation will not be accepted for credit toward the Master of Arts degree, except upon recommendation by the major department and approval of the appropriate academic dean.

No more than six semester hours of credit may be allowed for courses completed at Montclair State College prior to matriculation for the master's degree, except in specially designated programs.

No graduate credit is allowed for courses taken at other colleges while the student is enrolled at Montclair State College unless the student obtains prior approval from the appropriate academic dean. A form for this purpose is available in the Office of Graduate Studies and should be completed well before the transfer credit is needed.

Credit is not allowed for courses taken on an audit basis.

It is the obligation of each student to ensure that no course undertaken for graduate credit duplicates a course previously taken by that student. Courses may not be taken more than once for credit regardless of any change in the course number or title.

Transfer Credit: A student may transfer six semester hours of graduate credit previously earned at an accredited college or university toward the Master of Arts degree at Montclair State College, provided the student obtains approval from the department graduate advisor at the time of admission, and provided that the credits were not previously applied to any degree. This approval must be noted on the student's work program. Grades below B are not accepted for transfer credit, nor are courses below graduate level in the originating institution.

Time Limit: Requirements for the Master of Arts degree must be completed within six years from the date of matriculation unless the appropriate academic dean approves an extension. Written applications for extension will be reviewed and evaluated by the Office of Graduate Studies on the basis of the student's progress toward the degree and in accordance with established graduate policy at the time of application.

Grades and Standards:

There are ten grades used at Montclair State College:

A	Excellent	WD	Incomplete
B	Good	WD	Withdrew
C	Fair	NC	No Credit
D	Poor	AU	Audit
F	Failure	P	Pass (not available to graduate students)

The mark "F" signifies: (1) academic failure; (2) failure of the student to submit written notice of withdrawal; or (3) withdrawal after the mid-point in the semester. The mark "WD" is given to those who submit in writing their intention of withdrawing from a course before the midpoint of a semester.

The grade "IN" is intended to indicate that the student has not completed the course and that a grade is being withheld until the work is performed and approved. Students must enter into a formal contract with the faculty prior to the end of the semester, using the form available in the Office of the Registrar. The "IN," if not replaced with a final grade by May 1st for Fall and Winter incompletes and December 1st for Spring and Summer, will become an "F." Exceptions can be granted only upon petition to the appropriate School Dean.

A change of grade request from other than an "IN" grade, must be processed by faculty and approved no later than the end of the next fall semester following the semester in which the grade was earned.

No graduate credit is allowed for courses completed with grades below C. In order to qualify for the master's degree, a student must have a 3.00 GPA within the major as well as cumulative grade point average of 3.00 based upon a possible 4.00 system. Students may repeat a grade of D or F with approval of the appropriate graduate advisor and the Office of Graduate Studies.

Any matriculated student whose grades fall below the 3.00 cumulative grade point average will be placed on academic probation and will be given one

semester, within one year from date of first notification of probationary status, to achieve the required average. Failure to obtain the required average within the prescribed period of time leads to final review which may result in the termination of matriculated status. Notice of such action will be sent to the student by the Office of Graduate Studies after consultation with the departmental graduate advisor. A student may appeal such action in writing to the appropriate academic dean.

An official record of credits and grades earned will be mailed to the student following the close of each semester.

Audit Policy: To "audit" a course is to attend class regularly, without the obligation of participating in class discussions, laboratory work, examinations, performances or any class activity other than listening. A course may be audited under the following conditions:

1. Students auditing a course are required to establish eligibility for admission, register, and pay full tuition and fees.
2. A course may be audited on a space available basis only and requires approval and signature of the department chairperson.
3. Students are required to file an Audit Application with the Office of the Registrar in addition to the registration form.
4. The College's attendance policy applies to audited courses.
5. Audited courses are considered as part of the student's regular course load.
6. Audited courses do not carry academic credit.
7. An "audit" may not be changed to "credit" nor a "credit" to "audit" after the first three weeks of the semester.
8. The student's record will show a grade of "AU" for the course if the instructor certifies that the regulations, including required attendance, have been met.
9. A student who later seeks credit by examination for a course previously audited must be enrolled in the College at the time that the examination is taken and is subject to such fee charges for the examination as the College may establish.
10. A student who has audited a course may take the course at a later date for credit.

Registration Procedure: All formally admitted graduate students who were registered at Montclair State College during a given semester and all newly admitted graduate students will automatically have Advanced/Mail Registration material mailed to them for the immediate following semester. Returning students who are not currently enrolled must contact the Office of the Registrar to request registration material. New students who are admitted after the Advanced/Mail Registration period and students who do not submit their registrations by the deadlines, must register in person.

Registration procedures, regulations and deadlines may be obtained from the Office of the Registrar, or from the semester's Schedule of Courses book.

GRADUATION REQUIREMENTS

Program of Study: A minimum of thirty-two semester hours of graduate credit is required in all departments. Additional hours may be required to satisfy prerequisites or special programmatic purposes.

Each student must pass a comprehensive examination in his/her field, either oral or written, or both with the approval of the graduate advisor and the Office of Graduate Studies; a thesis may be substituted for all or part of the examination.

Candidates are also required to demonstrate their ability to execute and report on an independent research project or other creative production. This requirement may be satisfied in one of several ways: (1) a project report written in connection with a required departmental seminar, (2) a master's thesis or (3) the production of a creative project in the fine and performing arts or humanities. The option selected must have departmental approval.

A department may accept the master's thesis as equivalent to a required seminar and/or in lieu of all or part of the comprehensive examination.

Thesis: Those interested in writing a thesis must obtain the MSC Thesis Guidelines from the Office of Graduate Studies or their major department, and consult the graduate advisor before beginning any part of the process. Students are responsible for following these guidelines in selecting an advisor and a topic, registering, completing and typing the thesis, defending and applying for graduation. *Form A—Approval for Writing a Master's Thesis* must be signed by all parties concerned and the appropriate section turned in at the initial registration for thesis. THERE WILL BE NO REGISTRATION FOR THESIS OR THESIS EXTENSION WITHOUT WRITTEN PERMISSION.

Comprehensive Examination: The comprehensive examination is open only to matriculated students and is usually administered once in October and once in March. Students should check with their departmental graduate advisor to determine the date and time of the examination.

It is the student's responsibility to file the Notification for Comprehensive Examination form with the Office of Graduate Studies and the appropriate department at the beginning of the semester the examination is to take place. The form is available in the Office of Graduate Studies.

Students who fail the departmental comprehensive examination are allowed to retake it twice but must reapply each time as described above.

Effective October 15, 1985, the New Jersey State Board of Education requires candidates for *instructional* certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding *which* tests to register for and how to register is available in the Office of Teacher Education, 003 Chapin Hall.

Application for Final Evaluation for Graduation and Certification: Students are required to complete the curriculum prescribed in the College catalog

in effect, or as subsequently modified, when they matriculate. Graduate students are required to maintain a cumulative grade point average of 3.00 based upon a possible 4.00 system. Graduate students are also required to maintain a cumulative grade point average of 3.00 in the major if required by the department. Inquiries pertaining to an individual's program of studies should be referred to the appropriate academic or faculty advisor. It is the student's responsibility to meet all graduation requirements.

Degree candidates are required to file an Application for Final Evaluation with the Office of the Registrar prior to the intended graduation date. All degree requirements must be completed by the respective graduation dates.

Application for Final Evaluation filing deadlines for master's degree candidates are October 1 for graduation the following May, March 1 for graduation the following August, and June 1 for graduation the following January.

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of graduation. Students who wish to confirm receipt of their Application for Final Evaluation by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Master's degree candidates who have been evaluated for New Jersey teaching certification endorsement are required to also file an Application for Certification and pay the required fees by check or money order to Montclair State College in the Office of the Registrar during the period of March 15–April 15 for May graduation, July 1–August 1 for August graduation, October 15–November 15 for January graduation. The fee is \$30.00 for each endorsement.

Effective October 15, 1985, the New Jersey State Board of Education required candidates for instructional certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding which tests to register for and how to register is available in the Office of the Director of Teacher Education.

Approved Educational Certification Programs: Students who have been admitted to an approved certification program at the College and are seeking New Jersey Instructional, Educational Services or Administrative certificates are required to file an Application for Final Evaluation and an Application for Certification with the Office of the Registrar.

Application for Final Evaluation filing deadlines for students who have been admitted to an approved certification program are October 1 for certification the following May, March 1 for certification the following August, and June 1 for certification the following January.

Prior to in-person registration for the final semester, the student will be mailed a copy of the final evaluation listing requirements that must be completed in order to meet the intended date of certification. Students who wish to confirm receipt of their Application for Final Evaluation by the Office of the Registrar should consult the list posted outside the office during the month immediately following the filing deadline.

Students who have been admitted to an approved certification program and have been evaluated are required to file an Application for Certification and pay the required fees by check or money order to Montclair State College in the Office of the Registrar during March 15–April 15 for May certification, July 1–August 1 for August certification, October 15–November 15 for January certification. The fee is \$30.00 for each endorsement.

Effective October 15, 1985, the New Jersey State Board of Education required candidates for instructional certificates to take sections of the National Teacher Examination or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Information regarding which tests to register for and how to register is available in the Office of the Director of Teacher Education.

Students seeking certification through professional associations (e.g. American Dietetic Association, National Association of Music Therapy, Inc.) should apply to the appropriate association.

Commencement and Diploma: Commencement exercises are held in the Spring semester of each year. However, students who meet the scholastic requirements for their degrees and who have fulfilled all other obligations to the College may be awarded diplomas in August or in January. Nevertheless, participation in the commencement exercises is required unless a written request for conferment in absentia is approved by the Office of Graduate Studies. The Office of the Registrar will notify students when diplomas will be available.

TUITION AND FEES*

Tuition Charge

Graduate tuition, for those students who hold at least a bachelor's degree, per semester hour of credit	
(in state)	\$80.00
(out of state)	\$100.00

Fees

Student Building fee, paid each time a student registers, per semester hour	\$6.25
General Service fee, paid each time a student registers, per semester hour	\$1.75
Late Registration fee, for all students who register after the regular regis- tration period (non-refundable)	\$15.00

**Tuition and fees are subject to change without prior notice.*

Parking (decals purchased for the fall or spring semester are valid through the summer)

Automobiles and trucks (first vehicle registered)	\$20.00
(alternate vehicle registered)	\$10.00
Motorcycles (first motorcycle registered)	\$10.00
(alternate motorcycle registered)	\$5.00
Automobile and motorcycle (total)	\$25.00

Application for Admission (Non-refundable Fee)

Each application for admission must be accompanied by an application fee of \$10.00

Application for Certification (Non-refundable Fee)

Per each New Jersey Instructional, Educational Services or Administrative Certification Endorsement \$30.00

Transcript Fee (Non-refundable)

Per copy (both undergraduate and graduate records for same student are considered one copy) \$2.00
Five or more copies requested at the same time for the same student (maximum) \$10.00

Payment

Checks and money orders are payable to Montclair State College.

Refund and Withdrawal

In accordance with the New Jersey State Board of Higher Education policy dated July 16, 1976, the following uniform schedule of refunds for tuition and service charges is effective in all New Jersey State Colleges:

	Percent Refunded
Course discontinued by college authorities	100
Official student withdrawal during the first week of course	100
Official student withdrawal after first week but during first third of course	50
Official student withdrawal after first third of course	NONE

Refunds for courses that are scheduled other than the full semester are prorated in accordance with the above stipulations.

Official withdrawal is effective on the date which the Office of the Registrar receives written notification from the student. No withdrawals are accepted after the midpoint of a course.

Note: Comparable refund periods apply during the Summer and Winter Sessions.

FINANCIAL AID

Several kinds of financial aid are available to graduate students who meet all entrance requirements. Some of these aids provide an opportunity for desirable professional experience as well. Conditions for assistantships, loans and other aids are subject to change.

Graduate Assistantships: Graduate Assistants are expected to contribute an average of 15 hours per week during a 10-month academic year covering September 1 to June 30. They may be given teaching assignments or other duties which are directly associated with their department's educational responsibilities.

A stipend of \$3,000 plus waiver of all College-wide fees and tuition for all graduate level courses required to complete individual degree programs are included as part of the assistantship. During the academic year following the assistantship, tuition waiver and College-wide fee waiver are also included for the number of semesters equal to the number of semesters served as a Graduate Assistant. Graduate Assistants are defined as full-time students if registered for at least 6 semester hours. The Registrar is authorized to certify this full-time status. Therefore, Graduate Assistants may not accept full-time employment during the period of their assistantship and may not register for more than 12 semester hours per semester without written approval of the appropriate academic dean. For application, contact the Office of Graduate Studies.

Graduate Assistants must be either matriculated or eligible for matriculation into a graduate degree program at Montclair State College prior to their appointment.

Resident Assistantships: Opportunities are available for graduate students to work as resident interns or assistant managers in the College residence halls. Interns serve as directors of small residence halls for undergraduate students from June 15 to June 15 of the following year.

There is a monetary stipend plus room and board for the year. Tuition and college-wide fees are also waived for the year of internship and the following year. Applications are available in March. Contact the Office of Residence Life, Room 401, Bohn Hall for information. Assistant managers serve in large dormitories under a Resident Director and supervise 6-8 undergraduate residence assistants. The stipend is approximately \$1,600 year, plus room and board with extra pay for summer. Application deadline for assistant managers is January 31 of the year of the appointment. For information and application, apply to the Director of Residence Life.

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The following programs are administered by the Office of Financial Aid. All inquiries should be directed to it at (201) 893-4461:

Equal Opportunity Fund Grant and Assistantships (EOF): Residents of New Jersey who receive undergraduate EOF grants, or who were qualified for EOF but did not attend undergraduate colleges with EOF programs, may apply for EOF grants and assistantships. Those interested should contact the director of the EOF graduate program (201) 893-4384.

Garden State Fellowships: Awards based upon high academic achievement (College record, etc.) Awards made by State of New Jersey to residents who are full-time students at New Jersey colleges. Fellowships of \$4000 each are made to 25 students each year. Applications are available from the Graduate Studies Office.

New Jersey Guaranteed Student Loan: Loans may be made by participating banking or savings and loan institutions and are guaranteed by the New Jersey Education Assistance Authority. A list of participating lenders may be obtained from the Authority. The maximum amount of such loans is limited to \$7,500 annually for graduate students. There is no interest charged while attending MSC, but it is charged beginning six months after termination of attendance.

Carl D. Perkins (NDSL) Loan: American citizens, legally resident aliens and those who have filed initial citizenship papers and are halftime students at MSC are eligible to apply. The amount of the loan is determined by the availability of funds and the need of the students. Interest of 5 percent and repayment begin six months after the student ends study.

PLUS Program: Full and half-time students may obtain loans under this program. Amounts up to \$4,000 for full-time study and \$2,000 for half-time study are available. Information and applications are available at participating lending institutions.

College Work-Study: Graduate students as well as undergraduates may apply for part time jobs in the College at an hourly rate under the federal work-study program. Students must demonstrate financial need.

Enrollment Status: Only *matriculated* or *certificate program* students are eligible for financial aid under the following programs—NJGSL, Perkins Loan, PLUS Loan and College Work-Study.

The **GAPSFAS** (Graduate and Professional School Financial Aid Service) form is used to determine eligibility for the New Jersey Guaranteed Student Loan, Carl D. Perkins (NDSL) Loan and College Work-Study Programs. The GAPSFAS is available from the Financial Aid Office.

Satisfactory Academic Progress: All graduate students who receive financial aid must maintain "satisfactory academic progress" as defined by the College. A complete summary of these requirements is available from the Financial Aid Office.

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International Student (Non-Resident Tuition Waiver): A remission of non-residential tuition may be made to students from other countries who demonstrate financial need. Those interested should apply at least 60 days prior to the beginning of the semester a waiver is desired. Applications must be made each semester to the International Student advisor through the Dean of Students Office, 217 College Hall.

Part-Time Employment: Career Services, located in Room 104 of the Student Center Annex, (201) 893-5194, lists over 2,000 part-time, vacation and

temporary positions each year. Students may check current listings daily between 8:30 a.m. and 4:30 p.m., confer with the job developer, attend seminars on the creative job search, and register with the office's computerized job matching system to receive notices in the mail.

Scholarship: The Charles Bargerstock Memorial Scholarship, established in memory of the founder of the Career Services Office, offers a stipend of \$500 to a graduate student in Counseling, Human Services and Guidance who desires to become a competent career counselor, and will work ten hours weekly in the office during the academic year. For information, contact the Career Services Office, (201) 893-5194.

For a complete list of scholarships available to graduate and undergraduate students, consult the current undergraduate catalog, available in the Office of Admissions.

Veterans Benefits: Those who believe they qualify for veterans benefits should see the Veterans' Assistant located in Annex E, Room 10.

STUDENT SERVICES

Alumni Association: Graduates of MSC are members of the Alumni Association. Each year the Association's Executive Board and the Alumni Director plan a schedule of activities. The Association also sponsors student scholarships and faculty research grants, and conducts fund-raising activities to support selected college projects. The Alumni House is at 34 Normal Avenue across from the College, (201) 893-4141.

Bookstore: Located on the ground floor of the Student Center Annex, the Bookstore sells textbooks, paperbacks, greeting cards, clothing, office supplies and other items. Hours change each semester but are posted at the front door.

Career Services provides career planning and job hunting information to students. The office, located in Room 104 of the Student Center Annex, works with individuals who are confused about their career goals as well as those who have particular goals in mind.

Students are assisted with career counseling, instructional seminars, a career library, and listings of full-time and part-time job openings. The jobs listed are in every area except public school teaching and administration. Unique services which are offered include a computerized job matching system, videotaped "mock interview" seminars, a computerized interactive guidance system, and an alumni career information network.

The staff is available to answer questions and to help students find specific information. Students can use the library or job listing books when

the office is open daily from 8:30 a.m. to 4:30 p.m. Regularly scheduled seminars do not require pre-registration. To see a counselor, it is necessary to make an appointment by coming into the office or calling (201) 893-5194.

Communication Sciences and Disorders: Located in the Speech Building, the Department provides services to students with communication disorders.

Counseling: The Psychological Services Department, with a staff of trained psychologists, is available for students seeking professional assistance. Students will be given an initial interview and referred to community agencies as appropriate. The office is located in Gilbreth House, (201) 893-5215.

The Drop-in Center complements Psychological Services and provides peer counseling 24 hours a day, as well as round-the-clock referrals to on- and off-campus facilities. A policy of strict confidentiality is observed. The Center is staffed by an average of 20 students who serve on a volunteer basis. This staff is trained in Rogerian creative-listening technique and is familiar with the many resource materials which the Center has accumulated during its seven years on campus. The Drop-in Center, sponsored by the Student Government Association, is located between the Student Center and Richardson Hall, (201) 893-5271.

Cultural Opportunities: A number of significant series of cultural events adds to the pleasantness and interest of life on the campus. The Department of Speech and Theatre presents several plays each semester, and, in the spring, a major student dance concert. The Department of Fine Arts and the Office of Cultural Programming together operate a gallery whose exhibits are generally changed monthly. Distinguished artists visit the campus to talk about their work at the Art Department's Art Forum which takes place on most Thursday afternoons during the semester. The Music Department offers an extensive series of faculty and student concerts. The Office of Cultural Programming brings to the campus performers like Emelyn Williams and Alvin Alley.

During the summer, Summerfest Theater, the college's professional season stock company, offers six plays, each running one week.

Further Graduate Study: Students interested in attending a university for study toward a doctoral degree may find catalogs in Career Services (Student Center Annex) and the Office of Graduate Studies (College Hall). The Office of Graduate Studies also has national guidebooks on graduate programs, information on scholarships and GRE/GMAT/LSAT/MAT applications. Departmental advisors should also be contacted for information related to their specific discipline.

Health Services: A registered nurse is on duty 24 hours a day from 8 a.m. Monday until 4:30 p.m. on Saturday, in the College Health Center located in Blanton Hall. The door is locked after 10:00 p.m., and students must call (201) 893-4361 before coming between 10:00 p.m. and 7:00 a.m. The doctor is available during office hours every morning Monday through Friday.

I.D.: Students, faculty and staff are required to have a College-issued picture Identification Card. This card must be shown to withdraw books from the library, to obtain access to the Student Center Rathskeller, and to participate in various activities sponsored by the Student Government Association and Montclair State College.

All students currently holding I.D. cards will receive validation stickers with their class schedules and their tuition payment receipts each semester. New students will have their pictures taken at registration and receive temporary I.D. cards upon showing their course schedules or tuition receipt vouchers. They must go to the Student Center, Room 423, for their permanent I.D. cards, or call 893-4147 to have the cards left at College Hall. The switchboard hours are between 5:00 p.m. and 8:00 p.m., Monday through Thursday evening and Saturday morning.

Insurance: Medical insurance is available to all students at low cost, whether full or part-time. If needed or desired, arrangements can be made through the College Health Center, (201) 893-4361.

Parking: The College maintains several parking lots for use by students. These are designated on all campus maps. The College assumes no responsibility for cars or their contents while parked on College property. Parking decals are required of everyone and are available in the Business Services Office in College Hall. Decals must be displayed on all cars parked on campus. Shuttle buses are available to take people to and from parking lots and classroom buildings.

Students who fail to obey parking rules may receive either a municipal or College summons and possible towing.

Residence Halls Facilities: The Office of Residence Life maintains an off-campus listing of private homeowners and landlords who wish to rent rooms, apartments or houses to students. Information on available units is posted on the bulletin board located in Bohn Hall, adjacent to the classrooms. The Office of Residence Life (Room 411 Bohn Hall) is open on weekdays from 8:30 a.m. to 4:30 p.m., closed on holidays and weekends, and may be reached at (201) 893-5188.

Security and Safety: Assistance is provided by the Campus Police and Security Department in several ways: protection, information and advice. Emergency telephones are available on light posts and buildings around campus. In case of fire or life-threatening emergency, dial 4111 on the campus line. For other assistance, dial 5222.

Some of the services offered to students by the Campus Police and Security Department are: information on rape and crime prevention, services to motorists (keys locked in car, stalled or disabled vehicle, flat tires), and temporary parking permits (emergencies, temporary use or replacement vehicle, guests on campus, temporary overnight or disabled parking).

Student Center and Dining Facilities: The Student Center contains the bookstore, candy shop, information desk, game room, flea market and dining facilities.

There are four dining options in the Center; the cafeteria; the waitress service dining room; the Rathskeller which serves beer and wine as well as food; the vending machines which provide sandwiches and cold snacks; and a satellite operation in College Hall, the Snack Bar. A valid MSC student identification card is required for admission to the Rathskellar. The Student Center is open when classes are in session throughout the academic year. During examination time and over holidays, modified hours will be posted.

Transcripts: To obtain a transcript, students must complete a transcript request form, available through the Office of the Registrar. A fee of \$2.00 per copy (both undergraduate and graduate records for same student are considered one copy) is payable in advance to Montclair State College. If 5 or more transcripts are requested at one time, the fee shall be \$10.00. Please allow 10 working days for processing of all transcript requests. Additional time should be allowed for transcripts processed at the conclusion of each College session.

Transcripts will not be released for students who have an obligation (i.e., financial, library, parking, loan, etc.) to the College.

Women's Center: The Women's Center is located in the Student Center Room 420, telephone (201) 893-5106. It provides individual and group counseling, workshops in various areas of concern to women and men, and a Wednesday noon discussion series. Referrals are made where appropriate. The Center contains a library and reference files open to the College community.



BIOLOGY

Department Chairperson: Dr. J. Michael McCormick

Graduate Advisor: Dr. Larry Cribben

The graduate programs in the Biology Department are designed to enable a student to develop his or her preparation for a career in biological fields requiring advanced training or for the teaching profession.

Research facilities of the Biology Department are maintained in Mallory and Finley Halls and include specialized equipment for electron microscopy, botany, microbiology, immunology, aquatic biology, tissue culture, animal behavior and cell physiology. Additionally, the facilities at the New Jersey Maine Sciences Consortium, and other departments in the School of Mathematical and Natural Sciences, are available for cooperative graduate research. Faculty research interests include aquatic and terrestrial ecology, environmental toxicology, developmental biology, parasitology, entomology, immunology and cell physiology.

The Biology Department offers thesis and non-thesis students opportunity for graduate research under faculty supervision in selected areas of biology. Original research should not exceed 8 semester hours for thesis students and 4 semester hours for non-thesis students. A maximum of 2 semester hours will be given to the non-thesis student for research in biological literature. Students must complete a minimum of 26 semester hours in biology and a maximum of 6 semester hours in approved electives, completing a total of 32 semester hours in coursework.

ADMISSION REQUIREMENTS

Prior to matriculation for the Master of Arts degree in biology, the student should have completed a subject matter of at least twenty-four semester hours in biology and have adequate preparation in college chemistry, mathematics and physics.

In cases where there has been a weak undergraduate program in the major and/or collateral fields, prerequisite courses, which will not count towards graduate credit, may be assigned.

The matriculation program for M.A. candidates is prepared in consultation with the biology graduate advisor. Changes in the program can be made only with the written approval of the graduate advisor. It is the responsibility of the student to keep the advisor informed of progress in the program.

Semester Hours

- | | |
|--|---|
| I. Course Requirement | |
| 0401 514 Graduate Seminar in Biology | 1 |

II.	Research Requirement	
0401	597 Research in Biological Literature	2
	or	
0401	600 Thesis Research in Biology	3-7
III.	Electives	Maximum 6
	(Prior approval of Graduate Advisor is necessary.)	
IV.	Semester Hours Required in Biology	26
V.	Comprehensive Examination	
	Non-thesis students will take a written examination upon completion of course work in the biology core areas of molecular biology, ecology, and physiology. Thesis students will give a research seminar related to their project and will defend their thesis.	

Minimum: 32 semester hours

BIOLOGY

Course Descriptions

Semester Hours

W 0401 501 BIOLOGY OF HUMAN SEXUALITY 3

The course is designed to introduce the student in the graduate program in human sexuality and family life education to human anatomy and physiology, human genetics, endocrinology of the reproductive system and human developmental biology. These fields of knowledge are necessary in order to adequately understand and teach others about human sexuality, as well as to adequately counsel those who require assistance. This course is only open to graduate students in the School of Professional Studies.

W 0401 512 TOPICS IN MODERN GENETICS 3

Seminar course. Selected topics from current developments in genetic research, including chromosome and gene fine structure, extra chromosomal genetic elements, genetic engineering and aspects of biomedical genetic research.

Prerequisites: Undergraduate course in genetics and undergraduate course in biochemistry.

W 0401 514 GRADUATE SEMINAR IN BIOLOGY 1

Through a series of seminars delivered by faculty and guests, students will survey a broad range of topics in modern biology, and be introduced to the variety of specializations represented within the department. Emphasis shall be placed on recent advances in diverse areas of biology.

Prerequisites: Matriculation for M.A. degree in biology or permission of instructor. Comprehensive examination for the master's degree in biology will be based on this course.

W 0401 516 BIOGEOGRAPHY 3

Distribution of plants and animals of the world on continents and continental and oceanic islands and in various climatic zones.

Prerequisites: One year of botany, one year of zoology, including vertebrate zoology, and a course in physical geography.

W 0401 520 PLANT PHYSIOLOGY 4

Investigation of physiology of plants. Plant growth, development and reproduction as well as the new advances in plant physiology. Water relations of plants, mineral nutrition, physiological significance of soil and soil moisture, photosynthesis, respiration, plant biosynthesis and dynamics of growth.

Prerequisites: Organic chemistry, one year of botany.

W 0401 521 FIELD STUDIES OF FLOWER PLANTS 4

The taxonomy, evolutionary trends and ecological adaptations of the gymnosperms and angiosperms. A variety of habitats will be visited and analyzed.

Prerequisites: One year of botany and field experience in ecology.

W 0401 523 MYCOLOGY 3

Identification and classification of fungi.

Prerequisite: Microbiology, one year of botany or instructor's permission.

W 0401 531 MEDICAL PARASITOLOGY 3

To study the phenomenon of parasitism as applied to man and his domestic animals. Areas of emphasis include specific adaptations for parasitism and transmission, effects on the host, epidemiology and control.

W 0401 541 COMPARATIVE ANATOMY OF VERTEBRATES 4

A critical analysis of the ontogeny and morphology of the protochordates and chordates, and their phylogenetic relationships drawn from the fossil record, evolutionary trends, and comparisons of homologies and analogies. Materials include: extensive dissections, outside readings, and field trip to the American Museum Of Natural History.

Prerequisites: Course in vertebrate zoology and comparative vertebrate embryology.

W 0401 542 ADVANCED ENDOCRINOLOGY 3

A study of the physiology of the mammalian endocrine system with emphasis on hormonal control of homeostasis.

Prerequisite: W 0401 446.

W 0401 543 ADVANCES IN IMMUNOLOGY 3

To study in detail selected topics in immunology.

Prerequisites: 24 semester hours in biology, immunology, and 8 hours of chemistry, or instructor's permission.

W 0401 545 EXPERIMENTAL ENDOCRINOLOGY 4

A seminar and laboratory course in endocrinology in which the various endocrine glands will be surgically removed or chemically destroyed and the morphologic and physiologic effects measured and observed.

Prerequisites: 24 semester hours in biology, including endocrinology or human physiology, and W 0401 513.

W 0401 546 TOPICS IN PHYSIOLOGY 4

To give the student an in-depth understanding of three specific areas of human physiology. The areas selected are those in which there is a rapidly expanding body of knowledge. The areas covered will be kidney physiology in health and disease; neurotransmitters and modulation in the central nervous system; homeostatic processes in the myocardium and blood vessel walls in health and disease.

W 0401 547 MOLECULAR BIOLOGY I 3

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer of genetic information.

Prerequisites: Cell Biology, and one year of organic chemistry.

W 0401 548 MOLECULAR BIOLOGY II 4

Central concepts at the cellular level will be emphasized. Contemporary viewpoints in the areas of biomolecules, energy yielding and energy requiring processes and transfer of genetic information. The laboratory will deal with up to date investigative procedures via selected experiments.

Prerequisite: W 0401 547.

W 0401 549 TOPICS IN DEVELOPMENTAL BIOLOGY 3

Seminar in the regulation of developmental events, including both classical morphogenesis and recent advances using techniques of cell and molecular biology.

Prerequisites: Genetics and embryology.

W 0401 550 TOPICS IN MICROBIOLOGY 3

Coverage of selected topics such as the microbial genetics, antibiotic action, bacteriophage, virus, cancer and microbial metabolism. Emphasis will be placed on practical applications of modern research in specific areas.

Prerequisites: General Microbiology.

W 0401 551 INTERMEDIARY METABOLISM I 3

Discussion of interrelationships of catabolic and anabolic paths. Primary emphasis is placed on the metabolism of nucleic acids, carbohydrates, and proteins.

Prerequisite: Biochemistry or Cell Physiology.

W 0401 552 INTERMEDIARY METABOLISM II 3

Biological cycles, unity and diversity in metabolic paths, metabolic evolution, metabolic control mechanisms and other special topics. Primary emphasis is placed on the metabolism of lipids.

Prerequisite: W 0401 551 or instructor's permission.

W 0401 554 MICROBIAL PHYSIOLOGY 3

A study of micro organisms in terms of their morphology and metabolism. The significance of metabolic diversity and secondary metabolic products of various microorganisms will be explored through lecture topics. The economic significance of microbial metabolism in relation to industry and pathogenic diseases will be emphasized.

Prerequisites: W 0401 350 or equivalent, X 1905 231 or equivalent.

W 0401 570 ECOLOGY 3

Basic ecological principles and concepts. Habitat approach to field exercises in fresh water and terrestrial ecology. Intra and interspecific relationships with all living members of the ecosystem, problems in plant and animal biology.

Prerequisites: General Botany, General Zoology, and Plant Taxonomy or equivalent required for environmental studies degree.

W 0401 595 GRADUATE RESEARCH IN BIOLOGY**1-4**

Under the guidance of a faculty sponsor, students will investigate individual research problems of appropriate scope. Research which is not original may be approved but must be of a calibre to warrant graduate research standards.

Prerequisites: Matriculation in biology M.A. program, and completion of 15 semester hours in graduate biology.

W 0401 597 RESEARCH IN BIOLOGICAL LITERATURE**2**

To allow the student to investigate and evaluate a specific topic in biology under the supervision of a faculty member and to develop the student's skills in presenting current research in both the written and oral modes.

Prerequisites: W 0401 514 and graduate matriculation.

W 0401 600 THESIS RESEARCH IN BIOLOGY**3-7**

This course is designed to encourage supervised graduate research in a well-defined area of biology.

Prerequisites: Matriculation in biology M.A. program, approval of department chairperson and graduate advisor, as well as faculty sponsor who will supervise research.

W 1999 536 MARINE INVERTEBRATES: MOLLUSCA**1**

An in-depth study of the systematics, ecology, morphology, development, physiology and economic importance of selected groups of marine molluscs. Systematics and ecology will be stressed. Emphasis will be placed on those forms native to New Jersey. Also offered at the site of the New Jersey Marine Sciences Consortium.

Prerequisite: Biology, preferably with background in ecology or invertebrate zoology or instructor's permission.



BUSINESS ADMINISTRATION

*Master of Business Administration (MBA) Director: Dr. Harold Flint
Morehead Hall 103*

THE MONTCLAIR MBA

The goal of the Montclair Master of Business Administration Program is to prepare management generalists who have the knowledge, techniques and attitudes to analyze complex issues, establish logical goals, evaluate alternatives, form reasoned judgments, and effectively implement chosen options. While the development of analytical capacities is critical, the program's structure emphasizes the development of capacities that are tempered by a concerned awareness of obligations to the greater social environment.

The curriculum stresses the theoretical foundations of management oriented disciplines, practical applications of research findings, and current managerial practices. This blend of theory and prevalent practice builds a strong foundation for immediate application as well as post-graduate professional growth.

The Montclair MBA provides the opportunity to design unique programs to meet your specific needs and interests. You may choose to specialize in a particular area or you may select an array of advanced courses which will provide a broad, general education. Over 95 percent of our MBA classes are taught by faculty with doctoral or other appropriate terminal degrees. The remaining classes are taught by persons with outstanding professional credentials. The faculty's publication interests include refereed journal articles, textbooks, professional publications, governmental hearings, consulting reports, etc.

The School of Business Administration invites applications from persons with baccalaureate or post-baccalaureate degrees. Because we actively seek a diverse student body, all previous academic majors are considered for admission. Both full and part-time students are welcome. The courses are offered primarily in the evening.

PROFESSIONAL AFFILIATIONS

The Montclair MBA program is privileged to have a continuing relationship with two outstanding groups of businesspersons: the Business Advisory Council and the Young Presidents' Organization.

BUSINESS ADVISORY COUNCIL

Composed of preeminent business, professional and civic leaders, the Business Advisory Council serves as an organized liaison between the School of Business Administration and the greater community. The Council supplies

information and advice concerning the development of the School's programs. It also provides a forum for the exchange of ideas between our MBA students and the leaders of some of the nation's most distinguished organizations.

YOUNG PRESIDENTS' ORGANIZATION (YPO)

The YPO is an international organization composed of persons who have become presidents or chief executive officers of significant organizations prior to the age of forty. Montclair is proud to be a host for one of their educational outreach efforts: the Entrepreneurial Lecture Series. Provided for our MBA students, this series features lecture-discussions given by outstanding young business leaders from the New Jersey YPO Chapter.

CURRICULUM

The curriculum consists of 63 semester hours, of which 30 hours are devoted to a common body of knowledge, 27 hours are elected from advanced courses and 6 hours are allocated to intergrating courses. In planning your program, keep the following in mind:

- Within the 27 semester hours of advanced courses, to meet one's particular needs and interests you may develop an area of specialization, or, you may choose to develop a general program without a specialization. Specializations consist of 9 or 12 hours of advanced courses in one particular discipline. There are no rigid course requirements for any given specialization (i.e., from an area's advanced course offerings, you may select the 9 or 12 hours which best fulfill your particular educational goals). Of the remaining 18 or 15 hours, no more than 6 hours may be taken in any one discipline. If a specialization is not elected, among the six disciplines, 6 hours must be accomplished in each of three areas and 3 hours must be accomplished in each of the remaining three. In planning advanced study, you should review the Tri-Annual Course Offering Projection to be certain you can enroll in the courses wanted within the time allotted for education.
- At least 3 semester hours must be selected from advanced courses which have a primary emphasis on international aspects of business.
- An approved undergraduate calculus course is a program prerequisite. Applicants with undergraduate records that do not include such a course will be required to complete Y 1701 0114 Mathematics for Business II: Calculus, (3 sh), or a similar course, prior to enrolling in 0503 0501 Statistical Methods. This prerequisite calculus course will not be included toward fulfilling the student's total MBA graduate credit hours requirement.
- Students must complete the core courses prior to enrolling in the advanced courses. Exceptions are allowed only if appropriate core courses are not offered.
- All courses taken outside the School of Business Administration must be approved by the MBA Director prior to enrollment.
- All programs must be approved by the MBA Director. To qualify for graduation, you must adhere to your approved program.

ADVANCED ACADEMIC STANDING AND
TRANSFER STUDENTS

Through prior academic experience, challenge examinations and/or graduate level transfer credits, the 63 semester hour MBA requirement may be reduced by a maximum of 33 semester hours. The remaining 30 semester hours must be *completed at Montclair* and must meet the following minimum requirements:

- At least 21 semester hours must be earned in advanced courses.
- Students must complete the Integrating Core.
- If a specialization is elected you must earn all specialization credits at Montclair.

ADMISSION INFORMATION

Candidates are required to submit an application for graduate admission which includes:

- Two official copies of the academic transcript from each college and/or university attended.
- Scores from the Graduate Management Admission Test.
- A statement of professional objectives.
- Two letters of recommendation from persons qualified to evaluate the applicant's promise of academic achievement and potential for professional growth.
- Although prior work experience is not an admission requirement, it is strongly recommended for all MBA applicants.
- A non-refundable fee of \$10.00 must accompany each application.

Application materials may be obtained from and/or returned to:

Office of Graduate Studies
Montclair State College
Upper Montclair, NJ 07043

APPLICATIONS MAY BE SUBMITTED AT ANY TIME OF THE YEAR.

GRADUATE MANAGEMENT ADMISSION TEST
(GMAT)

The GMAT is required of all students. No application will be considered without these scores. Under the auspices of the Educational Testing Service, the test is offered by various colleges and universities including Montclair. For exact dates and locations contact: The Education Testing Service, Box 966, Princeton, New Jersey 08541.

REQUIREMENTS FOR THE MASTER OF
BUSINESS ADMINISTRATION DEGREE

Courses	Semester Hours	Prerequisites
I. Foundation Core	15	
2204 501 Economic Analysis	3	

2204	505	Aggregate Economics	3	2204	501
0502	501	Financial Accounting	3		
0503	501	Statistical Methods	3		calculus
0506	503	Information Systems	3		
II.		Functional Core	15		
0502	502	Managerial Accounting	3	2204	501
				& 0502	501
0503	502	Operations Research	3	0503	501
0504	501	Corporate Financial Management	3	0502	501
0506	505	Management Process and Organizational Behavior	3		
0509	501	Fundamentals of Marketing	3		
III.		Advanced Courses	27		
All students must select 27 semester hours from among the advanced (non-core) courses. Students may design program specializations to meet specific needs and interests; or, they may choose not to specialize and select an array of courses which will provide a broad, general education. In either case, a student's program must meet breadth requirements and must be approved by the MBA Director prior to enrolling in advanced courses.					
At least one of the advanced courses (3 semester hours) must be selected from among the following:					
0504	552	International Financial Policy			
0506	511	Issues in International Management			
0509	592	International Marketing Management			
2204	503	Economic Problems of the Third World			
2204	533	Corporation and International Financial Markets			
2204	543	United States and the World Economy			
IV.		Integrating Core	6		
0599	580	Business and the Sociopolitical Environment	3		
0599	590	Strategy and Business Policy	3	0599	580
Students must complete the Foundation Core, the Functional Core and at least 15 semester hours of advanced courses prior to enrolling in the integrating courses.					
TOTAL SEMESTER HOURS			63		

ADVANCED COURSES AND FIELDS OF SPECIALIZATION

Specializations consist of 9 or 12 hours of advanced courses in one particular discipline. The following course groupings provide an approximate guide to the types of subjects considered complementary to the various noted fields. Depending upon when one enters and the sequence of course offerings, some specializations may not be available to some students. In planning advanced study, review the Tri-Annual Course Offering Projection to be certain you can achieve your courses within the time you have allotted for your education. In all cases, your program must be approved by the MBA Director prior to enrolling in advanced courses.

Accounting

This field of specialization is designed to prepare students for careers in accounting and financial management. It also will enhance the accounting knowledge of students whose career objectives include financial analysis and/or general management. A typical program would emphasize courses in financial and quantitative analysis, and 9 or 12 hours chosen from among the following courses:

- 0502 520 Contemporary Issues in Financial Accounting: I
- 0502 521 Contemporary Issues in Financial Accounting: II
- 0502 522 Accounting for Decision Making Control
- 0502 523 Accounting for Business Concentrations
- 0502 524 Auditing Concepts and Techniques
- 0502 525 Fundamentals of Federal Taxation

To be eligible to sit for the Certified Public Accountant (CPA) examination, students must have a baccalaureate degree with at least 60 semester hours of liberal arts courses and the following semester hours of undergraduate and/or graduate credit:

- 24 semester hours of Accounting,
- 6 semester hours of Business Law,
- 6 semester hours of Economics,
- 6 semester hours of Finance, and,
- 18 semester hours of related business courses

There are additional requirements. For further information contact, the MBA Director.

Business Economics

This area prepares students to perform certain economic analyses for business or government (e.g., developing forecasts, cost-benefit analyses, public policy analyses, etc.). Students are provided with an institutional and theoretical understanding of the economic environment within which business and government form decisions. Topics include theories of pricing; the analysis of market demand; the economic role of money, credit, the Federal Reserve System, and Treasury operations; the factors comprising aggregate demand and how they interact to determine employment, output and level of prices; the economic impact of international activity, etc. Also of importance is the development of an understanding of how governmental policies affect business performance. A typical program would emphasize courses in finance and quantitative analysis, and 9 or 12 hours chosen from among the following courses:

- 2204 420 Econometrics
- 2204 502 Financial Institutions and Monetary Policy
- 2204 503 Economic Problems of the Third World
- 2204 508 Economics of Public Management
- 2204 510 Urban Economics: Problems and Policy
- 2204 533 Corporations and International Financial Markets
- 2204 541 Foundations of Contemporary Economic Thought
- 2204 542 Economic Fluctuations and Forecasting
- 2204 543 United States and the World Economy
- 2204 544 Government and Business
- 2204 545 Economics of Labor

Finance

This field prepares students for careers in the financial management of business and financial intermediaries (e.g., commercial banks, savings and loan institutions, investment banking, etc.). It also provides an excellent preparation for careers in brokerage and bond houses, financial counseling, and investment counseling. To develop an understanding of the role of finance in the administrative decision-making process, the field provides students with a knowledge of mechanisms, operations, and institutions of the financial system. A typical program would emphasize courses in accounting, business economics and quantitative analysis, and 9 or 12 hours chosen from among the following courses:

- 0504 551 Investments, Portfolios and Security Analysis
- 0504 552 International Financial Policy
- 0504 553 Financial Markets: Theory and Practice
- 0504 554 Advanced Financial Policy
- 0504 555 Financial Structure Analysis

Management

This field is designed for students preparing for careers in organization, personnel and operations management. The courses provide education in organization theory and behavior, the management of human resources, operations, and information systems. In all areas the emphasis is upon developing a thorough comprehension of potential management problems and the effectiveness and limitations of analytical techniques employed in their solution. Courses include such topics as: process and equipment selection, inventory control, distribution systems, quality control, employee motivation, group behavior, international business management, etc. A typical program would include courses in all other areas (i.e., accounting, business economics, finance, marketing and quantitative analysis) and 9 or 12 hours chosen from among the following courses:

- 0506 510 Personnel Management
- 0506 511 Issues in International Management
- 0506 512 Organizational Development
- 0506 513 Leadership and Behavior
- 0506 514 Management and the Computer
- 0506 535 Advanced Information Systems

Marketing

The Marketing specialization is designed to meet the needs of students interested in pursuing careers in a variety of marketing functions (e.g., product planning, marketing research, sales management, advertising, marketing planning, etc.). The courses are designed to provide students with a firm knowledge of the institutional and analytical aspects of the subject with a strong emphasis on decision making strategies and the development of solutions to practical marketing problems. A typical program would emphasize courses in business economics, management, and quantitative analysis, and 9 or 12 hours chosen from among the following courses:

- 0509 591 Consumer/Buyer Behavior
- 0509 592 International Marketing Management

- 0509 593 Product Planning/New Product Management
- 0509 594 Marketing Research and Information Systems
- 0509 595 Marketing Management

Quantitative Analysis

This field provides education in quantitative analytical methods for solving managerial and research problems. The purpose of these courses is to develop a theoretical understanding of, and a practical facility with, statistics, computers, and operations research. Course topics include such subjects as descriptive statistics, probability, queueing, business models, multiple regression, non-parametric statistical analyses, etc. The quantitative specialization will complement any career which employs mathematical and statistical analyses. With the assistance of the MBA Director, students selecting this specialization may develop programs that include courses drawn from offerings in computer science and mathematics. A typical program would emphasize courses in business economics, finance and management, and 9 or 12 hours chosen from among the following courses:

- 0503 531 Business Models
- 0503 532 Statistical Inference For Business
- 0503 533 Stochastic Models
- 0503 534 Multivariate Analysis
- 0503 535 Advanced Information Systems
- 0503 550 Production for Quality

BUSINESS ADMINISTRATION

Course Descriptions

ACCOUNTING COURSES

**Semester
Hours**

A 0502 501 FINANCIAL ACCOUNTING 3

A study of basic accounting concepts and their significance to the financial analyst and manager. Problems relating to income determination, valuation, reporting and analysis are stressed. Alternative conceptual foundations of reporting standards are presented and evaluated.

A 0502 502 MANAGERIAL ACCOUNTING 3

The development and use of accounting information for decision-making and control. Alternative cost concepts, cost volume profit analysis, and relevant costing techniques are introduced in the context of providing information for solving pricing, make or buy; product-mix; and resource utilization problems. The use of accounting data for control systems, variance analysis and performance evaluation are presented.

Prerequisites: A 0502 501, C 2204 501.

A 0502 520 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING I 3

The course builds on material presented in the financial accounting course A 0502 501. Students should gain an improved understanding of the techniques and underlying rationale of methods used to accumulate financial and operating data. Improves skill in analyzing information provided in annual financial reports.

Prerequisite: A 0502 501.

A 0502 521 CONTEMPORARY ISSUES IN FINANCIAL ACCOUNTING II 3

Continuation of contemporary issues in Financial Accounting I. Enables students to acquire an improved understanding of the composition and significance of various segments of the balance sheet, especially non-current assets, non-current liabilities, stockholders' equity, and statement of changes in financial position.

Prerequisites: A 0502 501, 520.

A 0502 522 ACCOUNTING FOR DECISION MAKING 3

The focus of this course is the integration with managerial accounting of the discipline of economics, managerial science and behavioral sciences. Quantitative techniques such as regression, linear programming and calculus are investigated in light of managerial accounting applications. The implications of behavioral sciences on the function of performance evaluation is investigated.

Prerequisite: A 0502 502.

A 0502 523 ACCOUNTING FOR BUSINESS COMBINATIONS 3

Presents the conceptual foundations and current reporting practices of accounting for business combinations. Purchase and pooling methods of accounting for business acquisitions and preparation of consolidated financial statements are extensively covered.

Prerequisite: A 0502 520 or instructor's permission.

A 0502 524 AUDITING CONCEPTS AND TECHNIQUES 3

A course in auditing principles, theory, design, and techniques. Theory, practice and techniques are integrated through the use of current auditing problems and student performance of a simulation audit of selected financial statement data.

Prerequisite: A 0502 520.

A 0502 525 FUNDAMENTALS OF FEDERAL TAXATION 3

The development and use of principles and concepts of federal tax laws affecting non-business entities. Analysis of internal revenue code and regulations as well as pertinent cases in the areas of gross income. Characterization of gains and losses, taxpayer status, and deductions will be studied.

Prerequisite: A 0502 501.

A 0502 575 INDEPENDENT STUDY IN ACCOUNTING 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

A 0502 577 SELECTED TOPICS IN ACCOUNTING 3
An in-depth study of a selected topic, issue, problem or trend in accounting. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

BUSINESS ECONOMICS COURSES

C 2204 501 ECONOMICS ANALYSIS 3
The resource allocation and distribution of income implications of a market oriented economy operating under various degrees of competition. Also analyzed are the determinants of consumer and market demand, and, the theoretical cost structure of firms.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3

Analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems, both theoretical and applied, in the area of monetary policy.

Prerequisite: C 2204 501.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3

A survey of major economic problems of the third world; examination of the economic structure of developing countries and of general theories of economic development; critical evaluation; of various policy alternatives for their development analysis of possible economic relationships between first and second worlds with the third world.

Prerequisite: C 2204 501.

C 2204 505 AGGREGATE ECONOMICS 3

Develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models the course examines current research and reviews the economy's recent macroeconomic performance.

Prerequisite: C 2204 501.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3

Application of capital theory in the decision-making processes of government. Alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: C 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS AND POLICY 3

Studies the location of economic activities, the growth of cities and the origins of some urban problems in a market economy. Also discussed are the problems of location and congestion due to agglomeration and non-market phenomena.

Prerequisite: C 2204 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3

Discusses the economic theories and problems which confront business institutions when dealing in international financial markets. Analyzes the various market instruments and how a corporation may use them.

Prerequisite: C 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3

Antecedents of current economic theory; economics as a cumulative science; the works of the creative economists; the uses and limitations of economic theory.

Prerequisite: C 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS & FORECASTING 3

Theories to account for variations in business activity; macroeconomic models and other forecasting approaches; economic fluctuations in the United States; proposals for reducing fluctuations; Harrod Domar model and other modern theories of growth.

Prerequisite: C 2204 505.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3

Principles of international finance, monetary relations and trade. Discussion of contemporary international monetary and trade problems and policies. Discussion of the economic aspects of current American foreign policy.

Prerequisite: C 2204 505.

C 2204 544 GOVERNMENT AND BUSINESS 3

The evolution of government influences on the functioning of the American economy. The causes and consequences of government regulation and control. The importance of economic analysis in the foundation of public policies.

Prerequisites: C 2204 501.

C 2204 545 ECONOMICS OF LABOR 3

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits and industrial peace.

Prerequisite: C 2204 501.

C 2204 575 INDEPENDENT STUDY IN ECONOMICS 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

C 2204 577 SELECTED TOPICS IN ECONOMICS 3

An in-depth study of a selected topic, issue, problem or trend in business economics. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

FINANCE COURSES

D 0504 501 CORPORATE FINANCIAL MANAGEMENT 3

An introductory course in corporate financial management which provides students with an understanding of the fundamental concepts of modern finance from an analytical and quantitative perspective and serves as a foundation course for further work in finance. The course stresses: valuation; capital budgeting decisions; capital structure and dividend decisions.

Prerequisite: A 0502 501

D 0504 551 INVESTMENTS, PORTFOLIOS AND SECURITY ANALYSIS 3

Develops the analytical methods relevant to investment management. Techniques are presented for the evaluation of corporate equity, debt, and other securities. Portfolio theory is presented in the context of formulating and managing appropriate asset portfolios.

Prerequisites: D 0504 501, D 0503 501.

D 0504 552 INTERNATIONAL FINANCIAL POLICY 3

Analytically oriented introduction to the political, economic, operational and tax environment in which international business, particularly multinational corporations, functions. Stressing methods of analysis which enable defensive strategies against risk; the course is comprised of five major units: political and country risk; foreign exchange risk; long-run investments and financing; working capital management; and control performance evaluation and tax planning.

Prerequisite: D 0504 501.

D 0504 553 FINANCIAL MARKETS: THEORY AND PRACTICE 3

Examines the functions of financial markets especially as they affect the management of financial institutions. Emphasis is placed on the analysis of financial markets from the viewpoint of the corporate financial manager.

Prerequisite: D 0504 501.

D 0504 554 ADVANCED FINANCIAL POLICY 3

Focuses on the application of valuation, investment, financing and dividend decisions to case studies it examines various practical problems in capital budgeting, the valuation of different kinds of debt and options, and financial planning and strategy.

Prerequisite: D 0504 501.

D 0504 575 INDEPENDENT STUDY IN FINANCE 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

D 0504 577 SELECTED TOPICS IN FINANCE 3

An in-depth study of a selected topic, issue, problem or trend in finance. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

MANAGEMENT COURSES

E 0506 503 INFORMATION SYSTEMS 3

Examines the information requirements of an organization. The differences in the kinds of information needed at the various organizational levels (operational, administrative and strategic) are emphasized. How to plan and implement a comprehensive information system is discussed as well as methods to measure its effectiveness.

E 0506 505 MANAGEMENT PROCESS AND ORGANIZATIONAL BEHAVIOR 3

Review of classical and modern approaches to the managerial process as it relates to the manager's functions of planning, organizing, staffing, leading, and controlling. These reviews will be tied to the open-system model and the contingency approach as an overall framework for understanding the management of organizations.

E 0506 510 PERSONNEL MANAGEMENT 3

Review of current literature from the behavioral sciences that apply to recruiting, selection, training, performance evaluation, labor relations, compensation, health and safety, and management development. Current problem applications are emphasized.

Prerequisite: E 0506 505.

E 0506 511 ISSUES IN INTERNATIONAL MANAGEMENT 3

An in-depth analysis of all components of international business management. Major emphasis is placed upon multi-national business operations including foreign profit centers, national and cultural differences, and comparative management systems with consequent impact on profitability. These are studied in terms of their influence on all areas of international trade.

Prerequisites: C 2204 505; D 0504 501; E 0506 505; F 0509 501.

E 0506 512 ORGANIZATIONAL DEVELOPMENT 3

The purpose of the course is to enhance the student's understanding and skill in the process of change in organizations. Students will be introduced to intervention techniques which will allow them to recognize the need for organizational change as well as develop skill in implementing a program change.

Prerequisite: E 0506 505.

E 0506 513 LEADERSHIP AND BEHAVIOR 3

The purpose of the course is to help students understand leadership behavior. The course reviews current theoretical and empirical literature from the behavioral sciences as it relates to leadership. Topics covered include leadership styles, power and leadership, leader-follower interactions, and the manager as leader.

Prerequisite: E 0506 505.

E 0506 514 MANAGEMENT AND THE COMPUTER 3

Study of computers and their use as management tools in information systems, research, control procedures, production, finance, modeling, and decision making. Topics include description of end application of different hardware and software components and programming concepts. Computer cost benefit analysis in all of the above and in systems applications.

Prerequisite: E 0506 505, 503.

E 0506 535 ADVANCED INFORMATION SYSTEMS 3

Conceptual foundations of information systems including the nature of information, the impact of information systems on the organization and managing the information services function. Explores most current technology in the area of operating systems software, including multiprocessing, multiprogramming, virtual storage and other operating systems, as well as applications software systems. Cross-listed as D 0503 535.

Prerequisite: E 0506 503.

E 0506 575 INDEPENDENT STUDY IN MANAGEMENT 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

E 0506 577 SELECTED TOPICS IN MANAGEMENT 3

An in-depth study of a selected topic, issue, problem or trend in management. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3

Literature and developments in the field of public administration from Woodrow Wilson to the New Public Administration Movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy-making process.

Prerequisite: E 0506 505 and permission of MBA director.

MARKETING COURSES

F 0509 501 FUNDAMENTALS OF MARKETING 3

The aim of Fundamentals Of Marketing is to develop an understanding of the principles of marketing as they operate in the economy as a whole and as practiced by all types of businesses. Attention will be directed to the problems marketing managers face in creating, promoting, and delivering want-satisfying products to the consumer.

F 0509 575 INDEPENDENT STUDY IN MARKETING 1-3

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

F 0509 577 SELECTED TOPICS IN MARKETING 3

An in-depth study of a selected topic, issue, problem or trend in marketing. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

F 0509 591 CONSUMER/BUYER BEHAVIOR 3

Consumer/Buyer behavior aims at developing an understanding of the social and psychological factors that influence industrial and consumer buying behavior. The managerial implications of these factors are emphasized.

Prerequisite: F 0509 501.

F 0509 592 INTERNATIONAL MARKETING MANAGEMENT 3

An examination of the various multinational and transnational issues confronting business organizations marketing products and services in overseas markets. Attention will be focused on problems such as identifying and evaluating markets, adapting marketing strategies to specific market needs and coordinating strategies in world markets.

Prerequisite: F 0509 501.

F 0509 593 PRODUCT PLANNING/NEW PRODUCT MANAGEMENT 3

An examination of the issues surrounding the management of existing product lines and the development of new products. Topics will include organizing and planning for product management, marketing research and concept testing, product life cycle approach, and new product development strategies and techniques.

Prerequisites: F 0509 591.

F 0509 594 MARKETING RESEARCH AND INFORMATION SYSTEMS 3

An examination of the development of information for use by marketing decision makers. Topics include using secondary data, collecting and evaluating primary data, managing the marketing research process, and developing a coordinated marketing information system.

Prerequisite: F 0509 0501.

F 0509 595 MARKETING MANAGEMENT 3

An intensive analysis of the issues and problems facing marketing managers. Emphasis is on the development of decision-making skills from both a tactical as well as strategic viewpoint.

Prerequisite: F 0509 501.

QUANTITATIVE ANALYSIS COURSES

D 0503 501 STATISTICAL METHODS 3

Introduction to statistical techniques with applications in business decision making and problem solving. Topics include descriptive statistics, probability distributions, statistical estimation and hypothesis testing, regression and correlation, and time-series analysis.

Prerequisite: Course in undergraduate calculus.

D 0503 502 OPERATIONS RESEARCH 3

A presentation of many of the applied mathematical techniques used to help make business decisions. Topics include the theory of decisions, linear programming, network analysis, queuing, Markov processes, and simulation. Prerequisite: D 0503 501.

D 0503 531 BUSINESS MODELS 3

An advanced course in quantitative approaches to managerial decision making. The emphasis will be on stimulation models and techniques with applications in finance, production, inventory, and queuing analysis. Computer-based simulation systems will be discussed and tested on the computer. Prerequisite: D 0503 501.

D 0503 532 STATISTICAL INFERENCE FOR BUSINESS 3

An exploration of intermediate statistical methodologies used for decision making. The theoretical bases for various techniques are presented to create a framework for understanding the assumptions and limitations of inferences made from data. Topics covered will include multivariate probability functions, moment generating functions, sampling distributions; estimation, Neyman-Pearson Lemma, parametric and non-parametric hypothesis tests, and analysis of variance.

Prerequisite: D 0503 501.

D 0503 533 STOCHASTIC MODELS 3

Stochastic models are descriptions of systems which change in accordance with probabilistic laws. The course focuses on construction rather than solution of models. Simulation solutions and statistical analysis of data from stochastic processes. Applications to business problems are stressed.

Prerequisite: D 0503 502.

D 0503 534 MULTIVARIATE ANALYSIS 3

An introduction to multivariate analysis with an emphasis on the practical application of these techniques. After introducing the multivariate distribution, the following statistical procedures are explored: multiple regression, discriminant analysis, multivariate tests of significance, canonical analysis, factor analysis, and multidimensional scaling. Use of these procedures as managerial tools is explored.

Prerequisites: D 0503 502, 532.

D 0503 535 ADVANCED INFORMATION SYSTEMS 3

Conceptual foundations of information systems including the nature of information, the impact of information systems on the organization and managing the information services function. Explores most current technology in the area of operating systems software, including multiprocessing, multiprogramming, virtual storage and other operating systems, as well as applications software systems. Cross-listed as E 0506 535

Prerequisite: E 0506 503.

D 0503 550 PRODUCTION FOR QUALITY**3**

The philosophy, tools and techniques necessary to properly manage for the control of quality production are of ever increasing importance to business and industry. Quality control, long thought of as only a tool for acceptance sampling, is now expanded and used as a means of improving all phases of any business system. This course presents the latest approaches to quality control along with adaptations and applications of traditional tools and methods to current problems.

Prerequisite: 0503 501.

**D 0503 575 INDEPENDENT STUDY IN
QUANTITATIVE METHODS****1-3**

Under faculty guidance and supervision, this tutorial course is open to students who wish to pursue individual study and research in a particular discipline. Written permission of the appropriate department chair and the MBA Director must be secured prior to enrolling in this course.

**D 0503 577 SELECTED TOPICS IN
QUANTITATIVE METHODS****3**

An in-depth study of a selected topic, issue, problem or trend in quantitative methods. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

INTEGRATING CORE**0599 580 BUSINESS AND THE SOCIOPOLITICAL
ENVIRONMENT****3**

This course studies the increasingly complex set of interrelationships among business, government and other interest groups in the public policy process. It explores the economic and legal environment, and the social and political factors which affect organizations. A series of current corporate and public policy problems are discussed in order to raise major issues, including ethical issues, involved in managing the corporation's relationships with its many publics. Prerequisites: Completion of Foundation and Functional Cores and a minimum of 15 semester hours of advanced courses.

0599 590 STRATEGY AND BUSINESS POLICY**3**

The focus of this course is on actual business situations and their impact on the total organization including the role of top management in dealing with these problems. The structure of the course is based on the strategic management process which includes identification, evaluation and implementation of policy and strategy.

Prerequisite: 0599 580.

BUSINESS EDUCATION

Chairperson: Dr. Rosemarie McCauley

Graduate Advisor: Dr. Albert D. Rossetti

The department of Business Education and Office Systems Administration prepares teachers of business education for administrative, supervisory, specialized work, and master teaching in the field of business education. In order to attain these objectives, candidates have an opportunity to supplement their undergraduate study and to explore advanced areas of work in accordance with their individual background, experience, achievement, and professional needs.

This is a 32-hour program which requires that candidates select six credits from a wide variety of general education courses and six credits in free electives. Of the twenty hours in the specialization, twelve hours represent required courses; the remaining eight hours allow candidates to select course alternatives from electives in business education. Research projects are planned and started in the Introduction to Research course and completed in the Seminar in Business Education course. An oral comprehensive examination based on results of the completed research project and a written comprehensive examination are an integral part of the program.

ADMISSION REQUIREMENTS

Graduate work toward the Master of Arts degree in business education presupposes the completion of an undergraduate major in business or distributive education or equivalent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN BUSINESS EDUCATION

	Semester Hours
I. Basic Professional Education	6
II. Specialization	20
A. Required Courses	
0838 501 Principles and Problems of Business Education	3
0838 503 Introduction to Research in Business Education	3
0838 603 Seminar in Business Education	3
At least one of the following:	
0838 512 Improvement of Instruction in General Business Subjects	3
0838 513 Improvement of Instruction in Stenography and Secretarial Practice	3

0838 514	Improvement of Instruction in Keyboarding/ Typewriting and Office Procedures	3
B.	Electives in Business Education	8
III.	Free Electives	6
IV.	Comprehensive Examination. Oral and written, given in the Fall and Spring in conjunction with 0838 603 Seminar in Business Education. Examinations are general in nature and are intended to test maturity of thought with respect to business education.	
		Minimum: 32 semester hours

BUSINESS EDUCATION

Course Descriptions	Semester Hours
B 0838 501 PRINCIPLES AND PROBLEMS OF BUSINESS	3
Survey of principles and practices. History of business education, objectives, relationship of business education to general education, trends and problems in the field.	
B 0838 503 INTRODUCTION TO RESEARCH IN BUSINESS EDUCATION	3
Literature and research of business education. Topics covered include: evaluation of current literature in business education research and tools used for interpreting statistical data. Student develops first three chapters of research study to be completed in B 0838 603 Seminar In Business.	
Prerequisite: B 0838 501 and 512, 513, or 514 and be matriculated.	
B 0838 505 ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION	3
Study of problems of organizing, directing and supervising business education programs at the secondary school and collegiate levels.	
B 0838 506 BUSINESS EDUCATION CURRICULUM	3
Study of business education for various levels and types of schools. Evaluation of specific programs for development of improved curricula.	
B 0838 512 IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS SUBJECTS	3
The purpose of this course is to upgrade the teaching of the general business subjects. Resource units and lessons are developed. These units include performance objectives, pre-testing, learning activities, and post-testing. This course also includes a simulation/gaming component which helps to foster strategies for planning and decision making.	
Prerequisite: Undergraduate courses in general business methods and/or teaching experience.	

B 0838 513 IMPROVEMENT OF INSTRUCTION IN STENOGRAPHY AND SECRETARIAL PRACTICE 3

Study of objectives, content, methods, teaching aids, and evaluation procedures for subjects in stenography and secretarial practice. Proficiency examinations in stenography will be given.

Prerequisite: Undergraduate methods in stenography and/or teaching experience.

B 0838 514 IMPROVEMENT OF INSTRUCTION IN KEYBOARDING/TYPEWRITING AND OFFICE PROCEDURES 3

Study of objectives, content, methods, teaching aids, and evaluation procedures of subjects in keyboarding/typewriting and office procedures. Proficiency examinations in typewriting will be given.

Prerequisite: Undergraduate methods in typewriting and/or teaching experience.

B 0838 528 FIELD STUDIES IN BUSINESS/DISTRIBUTIVE EDUCATION 3

Opportunity for the classroom teacher to evaluate some of the practices of business offices, industries and retailing organizations in the metropolitan area. Experience in planning, conducting and follow-up of field trips.

B 0838 529 PRINCIPLES OF COOPERATIVE OFFICE EDUCATION 3

Survey of principles and practices of cooperative office education. Objectives, organization, related class, placement, and supervision are investigated.

Prerequisite: Business education teaching certificate.

B 0838 540 WORKSHOP IN BUSINESS EDUCATION 1-3

This course will give the business educator the opportunity to do an intensive study of a selected current issue, concern, and/or problem in Business Education.

B 0838 603 SEMINAR IN BUSINESS EDUCATION 3

Matriculated graduate student in business or distributive education completes research project in business or distributive education. Prepares student for comprehensive examinations.

Prerequisite: B 0838 503.

CHEMISTRY

Chairperson: Dr. John Isidor

Graduate Advisor: Dr. Joseph F. Becker

The Chemistry Department offers advanced level courses in all major areas of chemistry as well as a number of highly specialized courses and individualized research opportunities. Students may selectively take a course or several courses to increase their professional competence in a particular area of chemistry and/or may elect to enroll in the Master of Arts program in chemistry as outlined below.

ADMISSION REQUIREMENTS

The minimum requirements for the Graduate Division as set forth in this catalog are essential for admission to the graduate program in chemistry. When the student is admitted to the Graduate Division, the chemistry advisor will evaluate the background in chemistry, other sciences and mathematics and a specific program will be designed. An entering student should present at least twenty-four semester hours of undergraduate chemistry credits. In consultation with the chemistry advisor, a program may be designed for students with less background to include prerequisites. Candidates for the master's degree in chemistry should seek the guidance of the chemistry advisor in selecting the six hours of free electives, and in fulfilling the research option.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN CHEMISTRY

	Semester Hours
I. Specialization	26
A. Courses in chemistry at the 500 level or above	15
B. Research: One of the following:	
1905 599 Graduate Literature Search in Chemistry	2
or	
1905 595 Graduate Research and	
1905 600 Thesis	4 or 6
C. Graduate level electives in sciences or mathematics	5-9
II. Graduate level free electives	6
III. Comprehensive examination	

Minimum: 32 semester hours

CHEMISTRY

Course Descriptions

X 1905 521	ADVANCED THEORETICAL INORGANIC CHEMISTRY	3
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Current theories of inorganic structure, reactions and properties.

Prerequisite: X 1905 341.

X 1905 531 ADVANCED THEORETICAL ORGANIC CHEMISTRY 3

Modern theories of organic chemistry with emphasis on electronic theory and reaction mechanisms.

Prerequisite: X 1905 430.

X 1905 532 ORGANIC SYNTHESIS 3

Detailed study of the art, methods, and the philosophy of organic synthesis beginning with a review of classical and modern synthetic methods, followed by the planning theory of synthesis and culminating in a study of elegant syntheses in the literature.

Prerequisite: X 1905 430.

X 1905 540 CHEMICAL THERMODYNAMICS 3

In-depth study of classical thermodynamics. Development of thermodynamic functions describing chemical systems in equilibrium with emphasis on systems of variable composition.

Prerequisite: X 1905 341 or instructor's permission.

X 1905 542 THEORETICAL PHYSICAL CHEMISTRY 3

Theoretical development of quantum mechanics and statistical mechanics as applied chemistry. Application of theoretical procedures to atomic and molecular structural and bonding.

Prerequisites: X 1905 341 and Y 1701 420.

X 1905 544 ELECTROCHEMISTRY 3

Principles and application of electrochemistry, relationship of electrochemical principles to classical thermodynamics, and practical applications of electrochemistry.

Prerequisite: X 1905 341.

X 1905 546 CHEMICAL SPECTROSCOPY 3

Introduction to the theory of molecular spectroscopy.

Prerequisite: X 1905 341.

X 1905 548 CHEMICAL KINETICS 3

Kinetics in its role of elucidating reaction mechanisms. Discussion of recent problems from the chemical literature including fast reaction and enzyme kinetics.

Prerequisite: X 1905 341.

X 1905 570 ADVANCED BIOCHEMISTRY 3

A detailed treatment of selected topics in biochemistry. Discussions of carbohydrates, lipid and amino acid metabolism, protein synthesis and nucleic acid chemistry.

Prerequisite: X 1905 370 or instructor's permission.

X 1905 590 SELECTED TOPICS-ADVANCED CHEMISTRY 3

An in-depth study of selected areas in either analytical, inorganic, organic, biochemistry or physical chemistry with special emphasis upon recent developments in the field.

Prerequisite: X 1905 341 or instructor's permission.

X 1905 595 GRADUATE RESEARCH**2-4**

Directed individual laboratory investigation under guidance of faculty advisor. May be elected once or twice, maximum credit allowed is 4 semester hours. Prerequisite: Completion of 12 semester hours in this graduate program; instructor's permission.

X 1905 599 GRADUATE LITERATURE SEARCH IN CHEMISTRY 2

An individual non-experimental investigation utilizing the scientific literature. Prerequisite: Completion of 12 semester hours in this graduate program.

X 1905 600 THESIS**3**

Writing, presentation, and defense of thesis before the chemistry faculty.

Prerequisites: X 1905 595, instructor's permission.

CLASSICS

Chairperson: Dr. Timothy T. Renner

CLASSICS

Course Descriptions

K 1109 511 THE COMEDY OF PLAUTUS**3**

Intensive reading and study of selected plays of Plautus with attention to language, characterization, style, structure, and metre. The literary and historical milieu of Plautine drama, including the apparatus of play production and the relationship of the comedies to contemporary social and economic history. The place of Plautus in theatre history, with special reference to Greek New Comedy, to other ancient Italic comedy, and to later European drama.

K 1109 584 LAW IN ROMAN SOCIETY**3**

An introduction to Roman law and an examination of the interrelatedness of law and Roman society during the late Republic and the Empire. Survey of the main areas of private law: Law of persons, law of things, law of obligations. Sources of law and their response to new conditions. Law as an instrument of social change. Law and daily life. Roman law in the medieval and modern periods.

COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Dr. Elaine Barden

Graduate Advisors: Dr. Warren Heiss, Dr. Gerald Woolf

Graduate students have the opportunity to specialize within the broad area of communication sciences and disorders in one of the four major tracks: (1) Speech-Language Pathology; (2) Audiology; (3) Learning Disabilities, and (4) Early Childhood Special Education.

All four programs stress an interdisciplinary approach to the understanding and remediation of communication and learning disorders, with emphasis on development of clinical and teaching skills. Successful students are those who have a strong need to understand the bases of clinical procedures, who work well with or without supervision, and who, with guidance from the staff, initiate independent projects, taking responsibility for personal growth in intellectual, clinical and teaching skills.

Students should indicate their choice of specialization at the time of advisement for matriculation.

ADMISSION REQUIREMENTS

Speech-Language Pathology

Students wishing to matriculate in this area must have completed the equivalent of 30 semester hours from among the following areas:

A. Professional Education-A minimum of 9 semester hours including one course from each of the following: principles and practices of education, educational psychology and curriculum.*

B. Specialization-A minimum of 12 semester hours from among the following: psychology and education of the handicapped, phonetics, anatomy and physiology of the auditory and vocal mechanisms, speech correction, speech pathology, clinical practices in speech correction, measurement of hearing (audiology).

A maximum of 150 semester hours of clinical practicum completed at the undergraduate level may be applied to the total 300 hours required for the master's degree. Practicum hours must match the disorder categories specified by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence.

**Note: Admissions and certification requirements are subject to change. Consult with departmental advisor.*

Audiology

Students wishing to matriculate in this area must have a minimum of 24 semester hours from among the following: anatomy and physiology of the auditory and vocal mechanisms, speech and language development, speech pathology, measurement of hearing, auditory rehabilitation, clinical practice in audiology.

A maximum of 150 hours of clinical practicum completed at the undergraduate level may be applied to the total of 300 hours required for the master's degree. Practicum hours must match the categories specified by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence.

Learning Disabilities

Students wishing to matriculate in this area must have a standard New Jersey teacher's certificate, one year of successful teaching experience; approval by Graduate Advisor for this program; two letters of recommendation regarding teaching or therapy skills.

Note: State certification requirements for Learning Disabilities Teacher Consultants are subject to change.

Early Childhood Special Education

Students wishing to matriculate in this area must have a New Jersey instructional certificate.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMMUNICATION SCIENCES AND DISORDERS

	Semester Hours
I. Basic Requirements	9
One of the following:	
0824 503 Methods of Research	3
**1220 511 Advanced Speech Pathology	3
**1220 514 Communication Disorders of the Aged	3
**1200 584 Cleft Palate & Oral Deformities	3
*0824 578 Testing & Evaluation	3
or	
*2001 578 Psychological Tests & Measurements	3
Two of the following:	
0830 500 Nature of Reading	3
1220 500 Acquisition of Speech & Language	3
1220 583 Language Disorders in Children	3
**1220 511 Advanced Speech Pathology	3
**1220 514 Communication Disorders of the Aged	3
**1220 584 Cleft Palate & Oral Deformities	3

**Required for certification in Learning Disabilities.*

***For Speech-Language Pathology specialization students only.*

Either:

*2001	563	Theories of Learning	3
		or	
*2001	560	Advanced Educational Psychology	3
The following electives may be taken in place of or in addition to required courses listed above by permission only.			
1220	502	Psychology of Oral Communication	3
2001	561	Developmental Psychology	3
0826	559	Dynamics of Group Process	3
2001	568	Psychology of Group Dynamics	3
0826	570	Counseling Adults	3
0826	580	Principles of Guidance & Counseling	3
2001	582	Behavior Modification	3
0826	585	Group-Guidance & Counseling Activities	3

II. Core Courses 9

Required of all students regardless of specialization

2001	565	Psychology & Education of Socially & Emotionally Handicapped Children	3
		or	
**1220	512	Advanced Diagnosis of Communication Disorders	3
*2001	573	Physiological Psychology	3
		or	
*1220	595	Medical & Physical Bases of Learning Disabilities	3
1220	586	Education of the Handicapped	3

The following electives may be taken in place of or in addition to required courses listed above by permission only:

1301	445	The Inner City Family	3
0821	540	Social Forces & Education	3
2001	553	Urban Psychology	3
2001	564	Psychology & Education of the Physically & Mentally Handicapped Children	3
2208	565	Sociology of Youth	3

III. Specialization Requirements 21

Speech-Launguage Pathology

1220	535	Advanced Seminar in Communication Disorders	6
1220	531	Advanced Audiology	3
1220	583	Language Disorders in Children	3
1220	592	Seminar in Research in Speech Pathology	3
		Electives	6

Completion of 150-300 hours of clinical practicum in speech correction depending upon number of hours completed prior to matriculation of the graduate degree.

ASHA certification requirements in speech pathology include a 3 semester hour undergraduate or graduate course in aural rehabilitation.

**Required for certification in Learning Disabilities.*

***For Speech-Language Pathology specialization students only.*

Audiology

1220	536	Seminar in Audiology	6
1220	531	Advanced Audiology	3
1220	593	Seminar in Research in Audiology	3
		Elective in auditory rehabilitation	3
		(1220 537, 569, 570 or 571)	
		Departmental Electives in Audiology	6

Learning Disabilities

*1220	580	Diagnosis and Correction of Children with	3
		Learning Disabilities I	
*1220	581	Diagnosis and Correction of Children with	3
		Learning Disabilities II	
*1220	582	Remediation of Basic Skills	3
*1220	590	Practicum in Learning Disabilities	3
1220	589	Seminar in Research in Learning Disabilities	3
		Electives	6

Early Childhood Special Education

1220	504	Neuromotor Development of the Young Child	3
1220	505	Language Disordered Preschoolers:	3
		Identification/Education	
1220	506	Assessment of Preschool Handicapped	3
		Children	
1220	507	Implementing Programs for Young	3
		Handicapped Children	
1220	508	Parents of Young Handicapped Children:	3
		The Educator's Role	
1220	510	Field Experiences in Early Special Education	3

Special Topics Seminar in Psychology

2001	659	Typical and Atypical Development of	3
		Pre-School Children	

Note: 1220 509 Seminar in Research in Early Childhood Special Education (3 semester hours) is required as part of Basic Requirements. Other basic and core requirements are determined through advisement.

IV. Electives

Selection from among the following courses will be determined through advisement and will be based on student's needs and interests.

Communication Sciences

1220	522	Advanced Phonetics	2
1220	534	Advanced Anatomy and Physiology of the	3
		Vocal and Auditory Mechanisms	
1220	572	Speech Science and Instrumentation	3

**Required for certification in Learning Disabilities.*

Communication Disorders

Speech Pathology

1220	511	Advanced Speech Pathology	3
1220	512	Advanced Diagnosis of Communication Disorders	3
1220	513	Parent Counseling in Communication Disorders	3
1220	514	Communication Disorders of the Aged	3
1220	515	Voice Disorders	3
1220	532	Practicum in Speech Rehabilitation	3
1220	584	Cleft Palate and Oral Deformities	3
1220	585	Stuttering	3
1220	591	Organization and Administration of Communication Disorders Program	3
1220	594	Independent Study	1-3
1220	533	Supervision of Speech and Hearing Programs	3

Audiology

1220	537	Hearing Aids and Hearing Aid Selection	3
1220	538	Differential Audiometry	3
1220	540	Practicum in Audiology	1-3
1220	542	Identification Audiometry and Conservation Programs	3

Learning Disabilities

1220	586	Education of the Handicapped	3
2001	564	Psychology and Education of the Physically and Mentally Handicapped Child	3
2001	561	Developmental Psychology	3
2001	582	Behavior Modification	3
0826	559	Dynamics of Group Process	3

Additional Department Requirements

1. Students pursuing concentrations in Learning Disabilities and Early Childhood Special Education are required to take an examination to assess proficiency in the understanding of basic concepts, issues, and practices. This examination will be given prior to admittance into practice and research courses. Passing this examination is a prerequisite for entry into practice and research courses. Students apply for this examination in consultation with their advisors. If the examination is failed, appropriate plans of action will be developed by advisor and student to address deficiencies.

2. Students in all concentration areas are required to complete successfully a comprehensive examination or project. Comprehensive projects and examinations are designed to give students an opportunity to demonstrate their ability to integrate major concepts while working closely with the faculty. Comprehensive projects and examinations are to be culminating activities in the students' programs.

Note that there is a limit to the number of times a student may take the comprehensive examination. Comprehensive projects may require revisions before being accepted and there is a limit to the number of revisions allowed.

Students are required to consult with their advisors for specific information on these additional department requirements.

3. Majors in speech-language pathology and audiology must complete a total of 300 semester hours of supervised direct clinical experience. Up to 150 hours completed as an undergraduate will be accepted toward the requirement. Majors in Learning Disabilities must complete a minimum of 150 clock hours of supervised experience. Majors in Early Childhood Special Education must complete a field experience.

Courses are offered in this department that meet prerequisite requirements in Speech-Language Pathology for admission to the graduate program. In addition, post-master's students may apply for admission to a program leading to certification for Learning Disabilities Teacher-Consultant.

Post-Master's Certification Program in Learning Disabilities

A post-master's candidate seeking certification in learning disabilities must complete twenty-four semester hours in the area of study listed below. Qualified students, however, who have already earned a master's degree in education, reading, speech correction, psychology, special education, or similar fields, may apply appropriate credits toward the 24 semester hours required for Learning Disabilities Teacher-Consultant certification. At least 12 semester hours, however, must be taken in the program.

Note: State certification requirements for Learning Disabilities Teacher-Consultants are subject to change.

REQUIREMENTS FOR CERTIFICATE IN LEARNING DISABILITIES

The graduate advisor will examine the post-master's applicant's transcripts of completed graduate courses in order to determine which of the following courses may be applied toward certification for Learning Disabilities Teacher-Consultant:

A. Required Studies (not necessarily in separate courses):

		MSC Equivalent
1. Education of the Handicapped	2001 564	or 1220 586
2. Learning Theory	2001 563	or 2001 560
3. Physiological Bases of Learning	2001 573	or 1220 595
4. Orientation to Psychological Testing	2001 578	or 0824 578
5. Remediation of Basic Skills		1220 582
6. Diagnosis of Correction of Learning Disabilities		1220 580 & 581
7. 150 clock hours supervised practicum (minimum)		1220 590

B. Electives

1. Group Dynamics	0826 559; 2001 568
2. Teaching the Emotionally Disturbed Child	2001 565
3. Curriculum Development for the Handicapped	2001 541
4. Child Growth and Development	2001 561
5. Language Development and Disorders	1220 583
6. Teaching of the Culturally Handicapped	2001 553; 2001 541

7. Interviewing and Counseling	0826 580; 2001 593
8. Educational Psychology	2001 560
9. Community Resources	0826 560

Each student's record will be evaluated by the Office of the Registrar after completing all, or the necessary parts of the 24 semester hour requirement. If work has been satisfactorily completed, and all other requirements have been met, the student will be recommended to the Bureau of Teacher Preparation and Certification for certification as a *Learning Disabilities Teacher-Consultant*.

The requirements for this endorsement, in addition to the completion of the prescribed academic program are:

1. A standard New Jersey teacher's certificate.
2. Three years of successful teaching experience (MSC requires two letters of recommendation from a current or previous employer and a notarized statement verifying at least three years of full-time paid employment as a teacher or clinician).
3. A master's degree in a related field from an accredited college.

COMMUNICATION SCIENCES AND DISORDERS

Course Descriptions	Semester Hours
L 1220 500 SPEECH AND LANGUAGE ACQUISITION The nature of language and language development in young children. Acquisition of phonological, semantic and syntactic systems studied in framework of biological, cognitive and linguistic theory.	3
L 1220 504 NEUROMOTOR DEVELOPMENT OF THE YOUNG CHILD The study of typical and atypical patterns of neuromotor organization and development, including general principles of stability, mobility, and the equilibrium as they influence postural stability is presented. Implications for the educator of the young handicapped child will be stressed.	3
L 1220 505 LANGUAGE DISORDERED PRESCHOOLERS A study of typical and atypical patterns of language development in the child from the pre-verbal period of infancy to the age of five will be undertaken.	3
L 1220 506 ASSESSMENT OF PRESCHOOL HANDICAPPED CHILDREN Screening for and assessment of handicapping conditions in children from birth to age five are studied. Techniques and instruments commonly used, administration and interpretation of results of key instruments, and the use of data to write an effective individualized educational program (IEP) and instructional guide are presented.	3
L 1220 507 IMPLEMENTING PROGRAMS FOR YOUNG HANDICAPPED CHILDREN The principles of learning and teaching will be applied to the preschool handicapped child. Adapting major curriculums and implementing IEPs (Individualized educational plans) in various settings will be the major focus of the course. Prerequisite: L 1220 506.	3

L 1220 508 PARENTS OF YOUNG HANDICAPPED CHILDREN: 3
THE EDUCATOR'S ROLE

Methods to help preschool educators cope more effectively with parents of handicapped children will be taught. Sensitivity to the problems of parenting handicapped children, the emotional and legal issues involved, and the development of the skills necessary for appropriate means of intervention will be the major focus of the course.

L 1220 509 SEMINAR IN RESEARCH IN EARLY SPECIAL 3
EDUCATION

Research design, statistical analysis and methods for writing a research paper are studied. Significant problems in the field of early special education are investigated and discussed. Published research projects are evaluated.

L 1220 510 FIELD EXPERIENCES IN EARLY SPECIAL 3
EDUCATION

Supervised experience in diverse field settings with preschool children, including typical and atypical children, and in an urban setting is provided. Seventy-five (75) clock hours of field experience is required.

L 1220 511 ADVANCED SPEECH PATHOLOGY 3

Modern techniques of speech rehabilitation and review of research findings in voice, articulation, rhythm and symbolization disorders. Speech rehabilitation integrated with related health services and educational services in schools and special centers.

Prerequisite: Neurophysiological Disorders Of Communication or equivalent course.

L 1220 512 ADVANCED DIAGNOSIS-COMMUNICATION 3
DISORDERS

Continuation of diagnosis procedure including tests for multiplehandicapped children with communication disorders. Opportunities provided for interviewing parents, testing and report writing.

L 1220 514 COMMUNICATION DISORDERS OF AGED 3

Communication disorders associated with pathologies that tend to occur in later life, e.e., aphasia, multiple sclerosis, parkinsonism and cerebral arteriosclerosis. Prerequisite: Neurophysiological Disorders Of Communication or equivalent course.

L 1220 515 SEMINAR IN VOICE DISORDERS 3

Selected disorders of voice production. Consideration given to etiology, pathology and therapy related to vocal nodules, contact ulcers paralysis of the vocal cords and other organic voice problems. Speech rehabilitation techniques for the laryngectomized and for persons with cleft palate conditions.

L 1220 531 ADVANCED AUDIOLOGY 3

Increase skill in administering tests for pure-tone and speech reception thresholds; evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering; pre- and post-surgical audiometry and special problems of differential diagnosis in testing children.

Prerequisite: Clinical Procedures In Audiology or equivalent course.

L 1220 534 ADVANCED ANATOMY & PHYSIOLOGY OF THE VOCAL AND AUDITORY MECHANISMS 3

Basic anatomy of mechanisms of speech reception and expression; the integrated functioning of the central nervous system, the autonomic nervous system and the endocrine system; abnormalities of structure and function of the speech and hearing processes; medical and surgical aspects of rehabilitation and hygiene of the ear, nose and throat. Demonstrations and supervised laboratory dissection.

Prerequisite: Anatomy and physiology of speech system or equivalent course.

L 1220 535 ADVANCED SEMINAR IN COMMUNICATION DISORDERS 3

Diagnostic, therapeutic and evaluative techniques employed in working with children and adults who have speech disorders of organic etiology.

Prerequisite: Permission of graduate advisor.

L 1220 537 HEARING AIDS AND HEARING AID SELECTION 3

Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds.

L 1220 538 DIFFERENTIAL AUDIOMETRY 3

Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.

L 1220 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

L 1220 540 PRACTICUM IN AUDIOLOGY 1-3

Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.

Prerequisite: L 1220 538.

L 1220 576 AURAL REHABILITATION FOR ADULTS 3

Advanced study of techniques for developing lipreading and auditory training. Social and vocational aspects of communication emphasized.

L 1220 578 SEMINAR IN RESEARCH IN THE HARD OF HEARING AND DEAF 3

Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental design.

L 1220 580 DIAGNOSIS AND CORRECTION OF CHILDREN WITH LEARNING DISABILITIES I 3

Conceptual model of learning disabilities; parameters of the diagnostic evaluation of the child who is failing in school. Tests demonstrated; students trained in analyzing results and prescribing individualized educational plans.

L 1220 581 DIAGNOSIS AND CORRECTIONS OF CHILDREN WITH LEARNING DISABILITIES II 3

Continuation of L 1220 580. Developing instruction plans from diagnostic data. Parameters of managing learning; disabled children within and outside the regular classroom; consultation techniques for use with classroom teachers. Prerequisite: L 1220 580.

L 1220 582 REMEDIATION OF BASIC SKILLS (METHODS AND MATERIALS) 3

Techniques for remediation of reading, writing, spelling, arithmetic, speaking and listening problems with children who are performing poorly in school. Prerequisites: L 1220 580, 581.

L 1220 583 LANGUAGE DISORDERS OF CHILDREN 3

Psycholinguistic components of language, factors involved in language development and language disorders associated with developmental lag, childhood aphasia, deafness, retardation and emotion problems.

Prerequisites: L 1220 500 or equivalent for speech pathology majors, L 1220 580 for learning disabilities majors.

L 1220 584 CLEFT PALATE AND ORAL DEFORMITIES 3

Etiology and characteristics of cleft palate and oral deformities of malfunctions in children; speech therapy and surgical repair procedures. Unit on tongue thrust therapy included.

L 1220 585 STUTTERING 3

Principles and methods of speech therapy with children and adults who stutter. Methods of evaluation, specific techniques for speech therapy, and principles coordinating speech therapy with home and school life.

L 1220 586 EDUCATION OF THE HANDICAPPED 3

Role of the teacher on the professional team, state and federal legislation relating to handicapped children and adults and community resources for the special child.

L 1220 589 SEMINAR IN RESEARCH IN LEARNING DISABILITIES 3

Significant problems in field of learning disabilities investigated, and published research projects evaluated. Critical analysis and experimental design.

Prerequisites: Permission of graduate advisor and L 1220 580, 581, 582.

L 1220 590 PRACTICUM IN LEARNING DISABILITIES 3

Clinical diagnosis and teaching of children with learning disabilities. Supervision by departmental staff is given to fulfill the 150 hour requirement. Arrangements can be made for both on-campus and off-campus experiences. (Matriculated L.D. majors).

Prerequisites: L 1220 580, 581, 582, instructor's permission.

- L 1220 592 SEMINAR IN RESEARCH IN SPEECH PATHOLOGY 3**
 Significant problems in the field investigated and published research projects evaluated. Critical analysis and experimental design.
 Prerequisite: Instructor's permission.
- L 1220 593 SEMINAR IN RESEARCH AUDIOLOGY 3**
 Significant problems in the field of audiology evaluation of published research projects critical analysis and experimental design.
 Prerequisite: Instructor's permission.
- L 1220 594 INDEPENDENT STUDY 1-3**
 Students select an area of communication sciences and disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation.
 Prerequisite: Instructor's permission.
- L 1220 595 MEDICAL AND PHYSICAL BASIS OF 3**
LEARNING DISABILITIES
 Critical dimensions of the neurological and physiological growth of the child. The scope and meaning of the pediatric and neurological examination and relevance of medical data to explain learning disorders. Aspects of drug and nutritional therapy will be explained.
- L 1220 597 PRACTICUM AND SEMINAR IN TEACHING 6**
HANDICAPPED CHILDREN
 This course provides students with direct experience in teaching children who are intellectually, physically, emotionally and/or developmentally handicapped in a controlled internship program. Students learn to analyze and carry out individualized education programs developed by child study teams. In addition to 90 hours of direct clinical teaching in an approved placement, each student must participate in class seminars, conferences and planning sessions.

CONTINUING EDUCATION

Director: Mr. Ray J. Ast

The faculty and staff in Continuing Education provide program services to students, volunteer groups, instructors, counselors, supervisors, administrators and others in communities and agencies throughout New Jersey and the nation. The programs offer direct service to community adult education development efforts, training programs for industrial and institutional employee career

mobility, adult basic education, English as a second language and high school completion programs, continuing education unit technical assistance, and selected contractual consultant and service assistance. The Center for Continuing Education utilizes College and community resources in the development of programs serving older adults. Information dissemination of adult basic secondary and continuing education, community education, and gerontological materials as well as resources is made available. Graduate credit courses are offered in adult and community education for individuals entering the field or seeking professional advancement. A specialization in adult education is also offered in conjunction with the Educational Leadership's Master of Arts program for training personnel. The College's Tuition Waiver for Older Adults Program is administered by the staff.

CONTINUING EDUCATION

	Course Descriptions	Semester Hours
1 0807 553	ADMINISTRATION AND SUPERVISION OF ADULT CONTINUING EDUCATION	3
	Considers the various administrative and supervisory roles in directing programs in adult continuing education. Particular attention will be given to an analysis and application of the technical, human relation and conceptual skills of administration to problems identified in adult continuing education.	
1 0807 584	SPECIAL ISSUES: ADULT CONTINUING, COMMUNITY EDUCATION, GERONTOLOGY	1-3
	For practitioners in gerontology, workshops in adult education and community education. A focus on cooperation, shared resources and funding for human services organizations. Workshop series specifically designed to examine theories and practices in field of adult continuing and community education. Expressed needs in the field are basis for topical selection and specific workshop designs.	
1 0807 651	INDEPENDENT STUDY IN ADULT CONTINUING EDUCATION	3
	Designed for individuals who in consultation with an advisor, wish to undertake either an indepth analysis of a specific problem, or to design and implement a particular project in adult continuing education.	

COUNSELING, HUMAN SERVICES AND GUIDANCE

Chairperson and Graduate Advisor: Dr. Arlene King

*Program Coordinators: Alcoholism Study, Dr. Donald Gregg; Fieldwork,
Dr. Richard Grey; School Social Work,
Dr. Thomas Millard*

Counseling, human services and guidance are an integral part of the American scene. Schools and colleges, community agencies and industry, and state and federal governments have all developed services to aid students, workers and others to adjust to a changing society. Montclair State College has been a leader in the preparation of professional personnel to staff these efforts, in developing programs to identify new areas of counseling services, and in providing new approaches to the training of counselors and human services personnel.

From the initial core of four basic courses through the field-work experience of 300 hours, the department offers courses to train counselors and human service personnel to work with inner-city youth, black and Hispanic communities, women, families, veterans, prisoners, reentry adult learners, drug and alcohol abusers, as well as to work in the more traditional roles in public school guidance and social work. An initial core program, consisting of four courses applicable to all specializations offered by this department, is required of all students entering the program.

After this core is completed, the student and the department's Graduate Advisor will work out an individual program designed to meet his/her particular interests and needs. Specialized programs can be designed for the teacher interested in learning more about group skills, for the person whose sights are on counseling at the college level or on certification in alcoholism counseling, for the manager who wants to know more about organizational development, and for many other individual cases.

CERTIFICATION PROGRAMS

Although members of the department are involved in serving these special interests, we shall continue to emphasize state certification programs for guidance counselors and school social workers. Both of these state certifications require additional credentials. The Student Personnel Services Certification for guidance counselors requires a teaching certificate and one year of full time teaching experience under certification. Those wishing to be certified as school social worker must have a minimum of 3 years of teaching experience or 3 years of experience in social work under approved supervision. Students should consult their graduate advisor for specific certification requirements for both of these programs. Courses are also available for persons seeking certification as Director of Pupil Personnel Services and for individuals interested in completing all academic requirements for certification in alcoholism counseling (CAC).

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COUNSELING AND GUIDANCE

	Semester Hours
I. Core Courses	12
Required of all students regardless of specialization	
559 Dynamics of Group Process	3
577 Counseling Theories	3
588 Techniques of Interviewing and Counseling	3
503 Methods of Research	3
II. Matriculation Courses	27
These courses will be decided after the four core courses have been completed, and the student has decided upon a specialization. Here are a few of the choices available:	
(a) State Certification Program in Guidance and Counseling	
(b) State Certification Program in School Social Work	
(c) Dual Certification Program for both Guidance and Counseling and School Social Work (one additional course required)	
(d) Human Services which permit such areas of specialization as:	
Individual Counseling	
Group Counseling	
Human Resources and Organizational Development	
Counseling in Higher Education	
Alcoholism Counseling	
III. Fieldwork	6
The fieldwork in each concentration consists of field placements approved by the Fieldwork/Practicum instructor. A minimum of 300 hours of observation and contact with clients at the field sites is required. The student will be supervised by a qualified person on the sites; a faculty member from the college will make periodic visits to discuss the fieldwork with the student and the supervisors.	
IV. Comprehensive Examination or Thesis	
Nearing completion of the program, the student will register for the comprehensive examination given in the Fall or the Spring. Students selecting the thesis option should register for 0826 650 Research Seminar and Thesis Writing.	

COUNSELING, HUMAN SERVICES AND GUIDANCE

Course Descriptions	Semester Hours
2 0826 557 TECHNIQUES AND EXERCISES IN GROUP DYNAMICS	3
A structured experiential course: participating in and evaluating activities and exercises of individuals who work with small groups. Students will modify old designs and create new ones as they compile their own ideas, forms and exercises.	
Prerequisite: 2 0826 559 or equivalent course, instructor's permission.	

2 0826 558 CONSULTATION IN ORGANIZATIONAL DEVELOPMENT 3

A laboratory based course which focuses on the role of the organizational consultant. Emphasis on planning, providing help and evaluating activities. Diagnostic and behavioral skills to aid individuals and groups within organizations will be developed. Designed for those considering consultation work in business, industry, government, penology, education and community organizations. Prerequisite: 2 0826 559 and 568, or instructor's permission.

2 0826 559 DYNAMICS OF GROUP PROCESS 1-3

A laboratory-based course for the development of group skills and understandings. Focus is on experimental learning and personal growth. Reading in human interaction theory will be related to actual group participation.

2 0826 560 MEDICAL PROBLEMS IN EDUCATION 3

In this course the role of the educator is studied in relation to the following subject areas: childhood, chronic and contagious diseases, nutritional problems, narcotics and psycho-socio-medical patholoies. The impact of health problems on the family, school and community is emphasized throughout. Required for certification in school social work.

2 0826 561 MARITAL AND FAMILY THERAPY 3

This course focuses on the core concepts fundamental to an understanding of marital and family therapy. Emphasis is on a frame of reference for family therapy strategies and review of current research on family process and treatment. Course is intended for practitioners in the helping professions, including social workers, counselors, ministers, probation and parole officers, alcohol and drug counselors.

Prerequisites: Core courses and approval of instructor.

2 0826 562 SOCIAL CASE WORK I 3

This course examines the theory and practice of social casework. Focus is on developing casework techniques in interviewing, diagnostic skills and intervention modalities. Utilizing case studies from school settings and social agencies, critical examination of major casework methods are undertaken in terms of diagnosis and functioning and intervention appropriate for the social treatment of a client-child or adult. Emphasis is on school social work, the child study team, the broad range of learning and behavioral problems, the appropriate use of casework help, the relationship between theory and practice and developing beginning skills in transferring and using knowledge appropriate to problem situations in the school and community. Required for certification in school social work.

2 0826 563 SOCIAL CASEWORK II 3

This course is a continuation of Social Casework I on a more advanced level. It entails critical examination of major social work methods in diagnosis, social functioning and relevant intervention techniques appropriate for the social treatment of individuals. Required for certification in school social work.

Prerequisite: 2 0826 562 or equivalent course.

2 0826 564 CASEWORK WITH CHILDREN**3**

This course examines the treatment role of the social worker with young clients experiencing personal problems. Focus is on understanding the array of interventive strategies appropriate to social work practice, treatment considerations in role formulation, and the domain and focus of practice which serves as a guide for decisions about focus, scope, and specific goals of treatment. Case studies from school and community agencies are utilized in discussing differential diagnosis, intervention techniques, goal setting and the professional relationship as the means and context within which treatment takes place.

Prerequisite: 2 0826 562 or equivalent.

2 0826 566 FIELD WORK-GROUP LEADERSHIP**3**

On-the-job training for group workers to sharpen diagnostic and behavioral skills. Students will join an ongoing task centered group either as a member or its leader and will make a problem diagnosis, procedural plan and a method of evaluation. In-progress and final reports will be discussed.

Prerequisite: 2 0826 559 or instructor's permission.

2 0826 568 THEORIES OF CONSULTATION**3**

Problems and current practices in small group interaction, social restructuring and cultural encounter. Survey of literature on the influence of interaction on small group behaviors, learning theories, leadership, decision making, social reconstruction, value conflict and perception of self and others.

**2 0826 569 CASEWORK TREATMENT IN THE CONTEXT
OF THE FAMILY****3**

Course is a study of objectives and characteristics of family treatment and the caseworker's use of self within the context of the family. Relevant concepts about the family as a social system, interactional processes, role structure and conflicts, individual psychodynamics and situational variables are examined in terms of family diagnosis and treatment techniques within the framework of the family as seen in the literature and practice.

Prerequisites: 2 0826 562, 563 570 or equivalent courses.

2 0826 570 COUNSELING ADULTS**3**

This course is designed to identify the special needs of adults as they seek counseling. Special attention is given to the counseling needs of college students, adults returning to academic environs, women, minority groups, the handicapped, and other adults with special needs. Case studies, field visits, and supervised practice will be basic techniques employed.

Prerequisite: 2 0826 577 or instructor's permission.

2 0826 571 PEER COUNSELING**3**

An advanced course dealing with the concept and experience of peer counseling. The development, organization, implementation, and evaluation of peer counseling programs and activities. This course involves lectures, seminars, and laboratory experiences. In laboratory, students counsel each other. In seminar, they evaluate their peer counseling activities.

Prerequisites: 2 0826 564, 577.

2 0826 572 SELF-CRITIQUING FOR IMPROVED COUNSELING COMPETENCE 3

Presentation of a theory and system for improving one-to-one counseling through a process of self-critiquing tape recorded interviews of counseling sessions conducted by course participants. Specific counseling behaviors are identified and examined and strategies are developed leading to the attainment of individual behavioral goals.

Prerequisite: 2 0826 588 or equivalent course.

2 0826 573 COUNSELING FOR CAREER MOBILITY 3

Course designed for counselors, staff development administrators, personnel counselors, trainers, individuals involved in career planning and personal development for employees or clients in academia, social agencies, business/industry. Prepare professionals to use current appropriate counseling techniques in career areas. Focus on career awareness and the changing market, possibilities of vertical/horizontal career mobility, job re-entry/retraining, and learning skills to facilitate self-awareness in relation to the world of work.

2 0826 574 COUNSELING IN AN INDUSTRIAL SETTING: EMPLOYEE ASSISTANCE PROGRAM (EAP) 3

Course focuses on counseling in the industrial/business environment; emphasis is on a frame of reference for intervention, assessment, diagnosis, treatment and referral. Reviews the history of employee assistance programs, discusses conceptual models, strategies and tactics of counselor intervention, clarifies other important issues related to organizational and employee needs. Differences between using resources in the work place and community agencies are explored.

Prerequisites: Core courses or instructor's approval.

2 0826 576 ACTION METHODS IN COUNSELING 3

Course is designed to provide an opportunity for students to experience and to develop facility with counseling methods which will enable their clients to explore the roles that they play in their daily lives and to find new and more effective ways of expressing these roles. Through the use of action-oriented techniques, students will increase their spontaneity and will be freer to unfetter creativity in others.

2 0826 577 COUNSELING THEORIES 3

Entails a comprehensive study of the major schools of thought in psychotherapies, existentialism, rogerian psychology, rational and motive, and psychoanalysis, among others, are studies in the context of social work, counseling, and psychological practice. Emphasis is in helping prospective human service professionals in recognizing that different theories are effective not because of their unique elements, but because in practice they include the basic common elements of all theories.

2 0826 579 THE USE OF TESTS IN COUNSELING 3

This course designed to familiarize counselors and school social workers with techniques for use and interpretation of test results. Implicit in this course will be the use of appropriate statistical analysis to draw conclusions for research and program development. Laboratory techniques will be used to give students practical opportunities to administer, score, and interpret a group of tests. Some time will be devoted to the planning of testing programs.

Prerequisite: 4 0824 578 or equivalent.

2 0826 581 COMMUNITY RESOURCES 3

This course deals with the various agencies, industries and institutions available in the surrounding communities for use in guiding and referring clients. In addition to becoming familiar with the location and nature of these facilities students learn the techniques for arranging client interviews and visits. Class discussion and personal research are supplemented by field trips.

Prerequisite: 2 0826 577.

2 0826 582 CAREER COUNSELING 3

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training.

Prerequisite: 2 0826 577.

2 0826 583 EDUCATIONAL GUIDANCE 3

This course is concerned with the facilities available for education after high-school graduation, the problem of further training for pupils leaving school before completing high school programs of alternative education, and the academic problems of students while in school. A brief survey of colleges and college admission procedures is made.

Prerequisite: 2 0826 577.

2 0826 584 GROUP COUNSELING: THEORY AND PRACTICE 3

Course is designed to familiarize counselors, social workers and other practitioners with the use of group counseling methods for the facilitation of personal growth; the treatment of social and emotional disorders and the socio-emotional education and enrichment of the individual. Entails examination of the historical and cultural context for group methods. Emphasis on diagnosis, group membership, group process, relevant social, psychological and educational theories in group behavior, treatment and strategies.

2 0826 585 GROUP GUIDANCE AND COUNSELING ACTIVITIES 3

This course places emphasis on the distinctions between guidance and counseling techniques and the appropriate group activities for each purpose.

Prerequisite: 2 0826 577.

2 0826 586 ELEMENTARY SCHOOL GUIDANCE SERVICES 3

This course is designed for elementary and middle school teachers and counselors-in-training who are concerned with supportive services related to human growth and life planning as a developmental process for their students. Special attention is given to the identification of problem areas and referral services.

2 0826 587 ADMINISTRATION AND SUPERVISION OF GUIDANCE PROGRAMS 3

Developing and administering programs of student registration, theory and techniques of scheduling, and supervisory responsibilities of the director of guidance. Coordinating guidance activities in a multi-school district or agency. Examination of current guidance practices; formation of proposals for improvement in programs where the student is working as a counselor and/or director. Prerequisite: 2 0826 577, 589 or equivalent course.

2 0826 588 TECHNIQUES OF INTERVIEWING AND COUNSELING 3

Included in this course are techniques applicable to the interviewing and counseling of individuals and small groups. Directive as well as client-centered approaches are utilized. Specific attention is given to techniques such as role-playing, case studies, and audio/video tape feedback.

Prerequisite: 2 0826 577.

2 0826 589 STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION 3

This course is a study of the student personnel functions in two-year and four-year colleges. The areas to be included are: personal counseling, financial aid, dormitory management, health program, student activities and social programs; course selection, job placement, college admission and academic retention, administration and supervision of the program.

2 0826 590 COUNSELING THE ALCOHOLIC 3

Course entails a comprehensive survey of concepts and complexities generic to alcohol-related dysfunctions. Investigates contemporary counseling theories and practices compatible with the pathology. Emphasis is helping prospective human service professionals develop diagnostic, attitudinal, and behavioral skills germane to case discovery and intervention.

2 0826 591 SEMINAR IN ALCOHOLISM COUNSELING 3

Methods for selection of treatment modalities for the alcoholic client will be studied along with typical behavior patterns of alcoholics. Major counseling theories will be reviewed in terms of what they offer to recovering alcoholics. Counseling fieldwork in an alcoholism treatment center will be required of each student.

Prerequisite: 2 0826 590.

2 0826 650 RESEARCH SEMINAR & THESIS WRITING 3

This course may be substituted for the Comprehensive Exam. It is available on a year-long basis, with an Incomplete granted at the end of the first semester to allow students the full year stipulated to complete a thesis. Students must follow the MSC Thesis Guidelines which may be obtained from the Graduate Studies Office and consult their department advisor before beginning the process.

2 0826 652 COUNSELING THE FAMILY 3

The course provides the opportunity for students to gain practical experience in leading family counseling sessions. Students will be expected to lead these groups with staff members and be available to assist in all learning endeavors. Prerequisites: 2 0826 559, 570, 577, majors only, instructor's permission.

2 0826 654 SUPERVISED FIELD WORK IN COUNSELING 3

The aim of the course is to introduce the student to various aspects of guidance and counseling through experience in schools and/or agencies actually dealing with such problems. Students observe and participate in activities of the agencies to which they are assigned and write full accounts of these observations and experiences. Some time is spent in discussing and evaluating these experiences and relating them to the literature of the subject.

Prerequisite: 21 semester hours in master's degree program and permission of field work coordinator.

2 0826 655 FIELD WORK AND PRACTICUM IN SOCIAL WORK 3

Students are provided the opportunity to apply social work knowledge to a school setting under supervision of a certified school social worker. The general objective of field work is an expectation that the student will develop beginning practice skills appropriate to the setting; ability to perform cooperatively in team and interdisciplinary practice, carry cases, interview clients, participate in intervention planning, write reports, interface with relevant community resources on behalf of clients and understand the school structure, functions, practice realities, and the current legal and medical issues affecting the child study team as a helping resource. The practicum provides the connecting link between classroom instruction and practice. The instructor draws material and illustrations from the student's issues relevant to the field experience.

Prerequisite: 21 semester hours in master's degree program and permission of fieldwork coordinator.

2 0826 656 PRACTICUM: GROUP COUNSELING 3

An advanced course for those practicing group leaders who wish to enhance their group leading skills. The students will meet and discuss their concerns and experiences. In this way they will be able to reinforce their present beliefs; have an opportunity to explore other's values and evolve alternative ways of working with groups.

Prerequisites: 21 semester hours in master's degree program and permission of fieldwork coordinator.

2 0826 657 SUPERVISED FIELD WORK IN COUNSELING SCHOOL SOCIAL WORK 3

Designed to meet the field experience needs of students seeking dual certification, this course provides students with opportunities in various aspects of guidance/counseling through experiences in schools and/or agencies actually dealing with such problems. The student is provided with the opportunity to participate in school social work in a natural school situation and to observe and participate in activities of the agencies to which they are assigned and to write detailed accounts of their observations and experiences.

Prerequisites: 21 semester hours in master's degree program and permission of fieldwork coordinator.

2 0826 658 FIELDWORK AND PRACTICUM IN ALCOHOLISM COUNSELING 3

This course provides students with a supervised fieldwork experience in a human service agency. Under the guidance of a certified, experienced counselor students will observe and participate in the activities of the agencies to which they are assigned and will write full accounts of these observations and experiences. Classtime will be devoted to processing these experiences with peers.

Prerequisites: 21 semester hours in master's degree program and permission of fieldwork coordinator.

2 0826 660 SELECTED PROBLEMS IN COUNSELING HANDICAPPED PERSONS 3

This course presents an overview of prevailing laws, attitudes, issues and practices related to the special needs of handicapped persons. Attention is given to: 1) identification and understanding of the handicapped; 2) federal and N.J. state legislation and supportive programs; 3) life/career counseling as particularly relevant to handicapped persons of all ages; 4) issues and trends in meeting the special needs of the handicapped.

Prerequisite: 2 0826 577, instructor's permission.

2 0826 661 GROUP DEVELOPMENT LABORATORY I 3

Seminar experiences as a core for advanced study in organizational leadership. Group participation and periodic opportunities to examine the problems of a group and the effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 2 0826 559 or equivalent course, instructor's permission.

2 0826 662 GROUP DEVELOPMENT LABORATORY II 3

Seminar experience as a core for advanced study in organization leadership. Group participation and periodic opportunities to examine problems of a group and effects of individual behaviors in group development. Methods of applying this experience to the improvement of communication in client organizations.

Prerequisite: 2 0826 559, 661 or instructor's permission.

2 0826 663 GROUP LABORATORY DESIGN 3

This course will focus on the translation of client needs into designs for programs of experiential and cognitive learning opportunities. Students will study models of programs which have been used for colleges, schools, businesses, and other organizations. They will then discuss the theoretical aspects involved and participate in the planning, carrying out, and evaluation of current laboratories, workshops, and conferences.

Prerequisite: 2 0826 559.

2 0826 664 INDEPENDENT STUDY 1-3

An opportunity to study in depth areas of human services which are not offered in the regular curriculum, under the direction of department faculty member. Semester hours determined by the department chair following consultation with departmental research committee. Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved course or seminar related to the student's special area of interest.

Prerequisites: 2 0824 503 Methods Of Research, chairperson's permission.

2 0826 666 ETHICAL AND LEGAL ISSUES IN COUNSELING 3

This course will include a study of ethical theory in relation to legal and moral issues in counseling. Conflicts and value problems will be looked at. Ethical principles and specific cases facing counselor will be included. Specific problems in thinking and counseling strategies as well as marketing of services and conduct of individual counselors will be studied.

Prerequisites: 2 0826 577, or instructor's permission.

2 0826 670 TECHNIQUES OF EVALUATION 3

The course provides a background in the design, use, and interpretation of statistical evidence. Students review measures of central tendency and dispersion, then learn to evaluate error or measurement, correlation, chi square, "T" differences, and analysis of variance. Particular concern is given to statistical significance and levels of confidence. All students must give evidence of ability to comprehend report data in professional journals.

2 0826 671 THE USE OF SELF-HELP PROCEDURES IN COUNSELING 3

This course provides students with the opportunity to review, in a laboratory setting, the vast array of self-help materials and procedures available to the general public. Through experimental application, students will become familiar with step-by-step procedures, appropriate application and evaluation of self-help materials in the counseling process.

Prerequisites: 2 0826 577, 588, instructor's permission.

2 0826 672 COUNSELING THE AGING 3

This course deals with the long-range preventive counseling and crisis intervention in critical stages of the aging process. Covered are such topics as: job change, economic upheaval, sexuality, changing family structure, chronic illness, death and dying.

Prerequisite: At least 1 year counseling experience or department chairperson's permission.

2 0826 673 COUNSELING FOR SEX EQUALITY 3

This course is designed to help student become more aware of the overt and more subtle aspects of sex inequality in our culture; the need for individual and group counseling strategies to overcome sex bias; and the development of counseling skills needed to implement these strategies.

2 0826 674 SUPERVISED FIELD WORK IN COUNSELING II 3

The aim of the course is to introduce the student to various aspects of guidance and counseling through experience in schools and/or agencies actually dealing with such problems. Students observe and participate in activities of the agencies to which they are assigned and write full accounts of these observations and experiences. Some time is spent in discussing and evaluating these experiences and relating them to the literature of the subject.

Prerequisites: 2 0826 654 and permission of fieldwork coordinator.

2 0826 675 FIELD WORK AND PRACTICUM IN SOCIAL WORK II 3

Students are provided the opportunity to apply social work knowledge to a school setting under supervision of a certified school social worker. The general objective of field work is an expectation that the student will develop beginning practice skills appropriate to the setting, ability to perform cooperatively in team and interdisciplinary practice, carry cases, interview clients, participate in intervention planning, write reports, interface with relevant community resources on behalf of clients and understand the school structure, function, practice realities and the current legal and medical issues affecting the child study team as a helping resource. The practicum provides the connecting link between classroom instruction and practice. The instructor draws material and illustrations from the student's practice or gives assignments that require focus upon specific issues relevant to the field experience.

Prerequisites: 2 0826 655 and permission of fieldwork coordinator.

2 0826 676 PRACTICUM: GROUP COUNSELING 3

An advanced course for those practicing group leaders who wish to enhance their group leading skills. The students will meet and discuss their concerns and experiences. In this way they will be able to reinforce their present beliefs: Have an opportunity to explore others' values and evolve alternative ways of working with groups.

Prerequisites: 2 0826 656 and permission of fieldwork coordinator.

2 0826 677 SUPERVISED FIELD WORK IN COUNSELING/SCHOOL SOCIAL WORK II 3

Designed to meet the field experience needs of students seeking dual certification. This course provides students opportunities in various aspects of guidance/counseling through experiences in schools/agencies actually dealing with such problems. The student is provided with the opportunity to participate in school social work in a natural school situation and observe/participate in activities of the agencies to which they are assigned and to write detailed accounts of their observations and experiences.

Prerequisites: 2 0826 657 and permission of fieldwork coordinator.

2 0826 678 FIELDWORK AND PRACTICUM IN ALCOHOLISM COUNSELING II 3

This course provides students with a supervised fieldwork experience in a human service agency. Under the guidance of a certified, experienced counselor students will observe and participate in activities of the agencies to which they are assigned and will write full accounts of these observations and experiences. Class time will be devoted to processing these experiences with peers.

Prerequisites: 2 0826 658 and permission of fieldwork coordinator.

2 0826 682 SEMINAR IN ADVANCED CAREER GUIDANCE 3

This seminar offers participants an in-depth exposure to such topics as latest sources and methods of utilizing career information, use of tests in career guidance, and theories of career development and their application in counseling, and developments in career education as they apply to counselors.

Prerequisite: 2 0826 582 or equivalent course, or instructor's permission.

CURRICULUM AND TEACHING

Chairperson: Dr. Catherine Becker

M.A.T. (Master of Arts in Teaching)

MAT Coordinator: Dr. Susie B. Boyce

Graduate Advisor MAT: Dr. Susie B. Boyce

Students with a baccalaureate degree and interest in teaching may earn the Master of Arts in Teaching (MAT) and a Teaching Certificate simultaneously.

A concentration in the Teaching of Middle School Philosophy is also available within the M.A.T. program.

The regular program is open to students with undergraduate backgrounds equivalent to a teaching field in one of the following areas: fine arts, business education (bookkeeping and accounting, distributive education, general business education, secretarial studies), English, foreign languages (French, Spanish), home economics, industrial education and technology, mathematics, music, health and/or physical education, science, social sciences and theatre. Additional undergraduate course work in the student's teaching field may be required to meet certification standards.

Upon successful completion of the program, and successful passing of the National Teachers Examination in the appropriate area, the student will be recommended to the New Jersey Department of Education for a Teaching Certificate. Students interested in teaching elsewhere should seek information from the appropriate state authorities; requirements are generally similar.

Note: Certification requirements are subject to change (see Non-Degree Post-Baccalaureate, Post-Master of Arts Approved Certification Programs and Teacher Certification Program requirements in this catalog).

ADMISSION REQUIREMENTS

In addition to the general requirements for admission and matriculation for the master's degree, the applicant must file a separate application to the Teacher Education Program by contacting the graduate advisor in the School of Professional Studies. Admission to the College cannot be considered admission to Teacher Education.

Criteria considered for admission are:

1. Three recommendations, two of which are from college faculty or school administrators.
2. Verification of demonstrated competence in speech by the department of Speech and Theatre.
3. Cumulative undergraduate grade point average of at least 2.67 and a qualifying score on the aptitude section of the Graduate Record Examination. For those whose native language is other than English, the TOEFL Examination may be substituted.

4. Evidence of active interest in community affairs and teaching.
5. Clearance by the Student Personnel Division (For MSC BA/BS graduates only).
6. Endorsement of the Teacher Admissions Committee (Departmental and School).

Advisement

Persons interested in the program may secure information from their designated advisors. Upon acceptance, the student will be assigned an advisor who will cooperatively develop a formal program of course work with a departmental (teaching field) advisor and advise the student continuously. For information about certification in New Jersey, the student may confer with the advisor for certification programs. For further information on certification, see Non-Degree Post-Baccalaureate/Post M.A. Approved Certification Programs in this catalog.

REQUIREMENTS FOR THE MASTER OF ARTS IN TEACHING (M.A.T.) DEGREE

Semester Hours

I. Professional Sequence

A. Prerequisites: The following courses must be taken if the students cannot fulfill the prerequisites on the basis of undergraduate credits or allowable graduate courses.

2001	101	General Psychology I, Growth and Development	3
		(undergraduate credit only)	
2001	200	Educational Psychology	3
		(undergraduate credit only)	
0829	200	Initial Field Experience in Education*	1
0830	407	Reading I: Theory and Process	3
0830	408	Reading II: The Content Areas	3
0829	410	Intermediate Field Experience in Education or equivalent	1

Note: All students must satisfy the course requirement in the Human and Intercultural Relations area. The course to meet this requirement must be selected from the approved list or its equivalent in consultation with the advisor.

B.	Required Courses	11
	Departmental Methods Course	3
0829	400 Teacher, School and Society	3
0821	520 Development of Educational Thought	3
0829	435 Effective Teaching/Productive Learning*	2

**Effective for students entering after September 1, 1986.*

II. Education Sequence	12
A. 0826 559 Dynamics of Group Processes	3
0824 503 Methods of Research	3
B. Other education electives	6
Graduate courses not specifically designed for preparation or certification in some other areas of education may be selected with approval of the Graduate Advisor.	
If, in the opinion of the Dean of the School, the student has essentially achieved the objectives of part of the program, that portion of the requirements may be waived. However, the number of graduate credits may not be reduced below 32, and other requirements of the College still apply.	
III. Teaching Discipline Courses	6-9
Graduate courses in the teaching discipline which are covered by the certificate or serve other needs and interests of the students are selected with approval of the Graduate Advisor.	
IV. Cultural Electives	3-6
With approval of the advisor, the student selects courses to extend or broaden his general education.	
Note: Areas III and IV must total at least 12 credits.	
V. Field Experience (Practicum)	10
0829 411 Supervised Student Teaching	8
0829 402 Seminar in Professional Education	1
0829 401 Senior (Community) Field Experience	1
Minimum: 45 semester hours	

NOTE:

The program requires a comprehensive examination. This requirement may be completed in conjunction with a three credit course (0829 600 MAT Seminar Related Instructional Thought and Practices) designed to prepare candidates for the examination. See Graduate Advisor for information.

M.A.T. CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

Director of the Institute for the Advancement of Philosophy for Children (IAPC): Matthew Lipman

Director of IAPC Graduate Programs, Graduate Advisor: Ann Margaret Sharp

The master's program in philosophy for children is designed for candidates who have a liberal arts degree or its equivalent. In view of the growing awareness of the importance of thinking skills to the educational process, and in view of the high regard in which the philosophy for children program has come to be held by educators on an international level, proficiency in teaching children philosophy, as attested by this degree, will strongly recommend such individuals to elementary and secondary schools seeking teachers with proficiency in improving students' cognitive skills.

Students attend four semesters of which the first and final are summer residential sessions of 9 graduate credits each held off campus in a community setting. Students take 36 credits in philosophy for children, educational psychology, and sociological theory. An additional ten credits enables the student to acquire actual classroom experience teaching philosophy to children under supervision in local public schools and to analyze their teaching experience under the guidance of the professional staff.

Since the inception of this program in 1981, candidates from 13 foreign nations have participated in addition to students from various American parts of the United States. Many of these students already held a master's degree in Philosophy before entering into this program. Among those who have successfully completed the program, some have gone on to Ph.D. programs in various universities, including the new Ph.D. Program in Philosophy for Children at Southern Illinois University; some have become Philosophy for Children coordinators in school districts; and some have become classroom teachers.

Certification

Candidates may, if they choose, opt for K-12 certification in a discipline other than philosophy (since philosophy is not a certifiable discipline in most states). Before beginning the degree program, the student who chooses this option should identify the discipline in which certification is to be requested upon consultation with the graduate advisor. It is the student's responsibility to contact the departmental certification advisor in that discipline to determine which courses the student will need to take in addition to the 46 graduate-credit Program in Philosophy for Children. There is no reason why these courses could not be taken in advance of the student's residence at Montclair State College. The student will also be responsible for designing a work program with the director of the IAPC graduate programs, which will secure the approval of the certifying officer of the College, the Dean of the School of Professional Studies.

Admission Requirements

Students should have a strong background in the liberal arts, with at least 15 undergraduate credits in traditional philosophy and 6 credits in psychology. Courses in the history of philosophy and logic are particularly desirable. Also required are an overall average of 3.00 in undergraduate work, Graduate Record Examination or Miller Analogies Test scores, and an interview. (The examination scores are waived in the case of individuals already holding a master's degree.)

Examinations

All candidates for the degree must pass the IAPC comprehensive examination given each year at the end of the summer terminal session. Application for this examination must be made in writing to the Office of Graduate Studies by March 1st of the year in which the examination is to be taken. Candidates are examined in the relationship of traditional philosophy to the teaching of reasoning, inquiry and concept formation skills, and in the relationship between the history of ideas and philosophy for children.

REQUIREMENTS FOR THE M.A.T. CONCENTRATION IN THE TEACHING OF MIDDLE SCHOOL PHILOSOPHY

Summer (one month off-campus residential session)

			Semester Hours
4999	510	Teaching Philosophical Thinking I & II	6
4999	511	Teaching Philosophical Thinking III	3

Fall

0821	521	Contemporary Educational Thought	3
0829	400	Teacher, School and Society	3
0829	401	Senior Field Experience	1
0829	521	Seminar: Problems of a Classroom Teacher	1
4999	512	Value Thinking Skills for Children	3
0829	414	In-service Supervised Teaching I	4

Spring

0821	581	Foundations of Reflective Education	3
2208	560	Sociological Theory	3
2001	560	Advanced Educational Psychology	3
0829	415	In-service Supervised Teaching II	4
4999	513	Social Thinking Skills of Children	3

Summer (one month, off-campus residential session)

4999	614	Scientific Thinking Skills for Children	3
4999	615	Foundations of Reasoning	3
			46

COMPREHENSIVE EXAMINATION

M. Ed. (Master of Education)

An Interdisciplinary Degree for Classroom Teachers

M.Ed. Administrator and Coordinator: Dr. Catherine Becker

Graduate Advisor: Dr. John Barell

The Master of Education degree at Montclair State College is designed to provide teachers with the knowledge, skills and competencies that will improve their performance in the classroom while broadening their awareness of professional issues and concerns. It is a program that is consciously designed for the mature student, drawing on recent research in the fields of adult learning, cognitive development and teacher effectiveness. In addition there is a clearly defined field-based component which ensures that participating students put into practice what is learned in the program. The unifying theme of the program is the development of reflective thinking in students.

Admission Requirements

Admission to the program is limited to active, certified teachers. Students must demonstrate required GRE and NTE scores and a basic undergraduate grade point average of 3.0, although special consideration will be extended to tenured

teachers who otherwise demonstrate they are capable of completing the program. Persons interested in the program may secure information from Dr. Catherine Becker, Chapin Hall Room 218.

REQUIREMENTS FOR THE M.Ed. DEGREE

	Semester Hours
PHASE I	
0829 530 Principles of Curriculum Development	3
0824 580 Learning: Process and Measurement	3
0821 521 Contemporary Educational Thought	3
0821 541 The School as a Social System	3
TOTAL PHASE I.....	12
TRANSITION I	
0826 559 Dynamics of Group Process	2
0829 609 Transitional Seminar I	1
TOTAL TRANSITION I.....	3
CUMULATIVE TOTAL	15
PHASE II	
0824 503 Methods of Research	3
0829 655 Professional Development Modules	4-8
Specialization Courses	3-6
TOTAL PHASE II.....	10-17
CUMULATIVE TOTAL	25-32
TRANSITION II	
0829 610 Transitional Seminar II	2
CUMULATIVE TOTAL	27-34
PHASE III	
0829 534 Strategies for Curriculum Change	3
0829 670 Culminating Activity	5
Specialization Courses	2-6
TOTAL PHASE III.....	10-14
CUMULATIVE TOTAL	37-48

CURRICULUM AND TEACHING

Course Descriptions	Semester Hours
1 0829 522 INNOVATIONS IN TEACHING	3
New media and strategies, novel teaching rules, individualized instructional programs, classroom group dynamics and experimental school organizations. Team teaching utilized where feasible. The student prepares an innovation proposal.	
Prerequisite: At least one year of teaching experience.	

1 0829 523 EDUCATION IN THE INNER CITY 3

The urban school through the eyes of city youngsters, teachers and other educational personnel. Influences of social and economic forces: poverty, family patterns, ghetto mores, urban unrest, emergent minority leadership, school funding patterns, community agencies and school traditions. Evaluation of federal and other projects, innovative teaching and local action. Student prepares a proposal for improvement of an urban school situation.

1 0829 530 PRINCIPLES OF CURRICULUM DEVELOPMENT 3

Philosophic, social and economic forces in our society that have determined and will determine the pattern of curriculum in American education in the American public schools from K-12 grades. Accepted manner of designing such curricula and professional bodies and individuals who play leading roles in the process of curriculum design. Connection of community interest and power structures in society which are related to the professional decisions.

Prerequisite: 1½ years teaching experience.

**1 0829 531 CURRICULUM CONSTRUCTION IN THE 3
ELEMENTARY SCHOOL**

Reviewing and bring up to date basic curriculum development concepts; curriculum construction in a modern elementary school; creating an elementary school curriculum in a specific field for one or more grade levels.

Prerequisite: 1 0829 530.

**1 0829 532 MIDDLE SCHOOL CURRICULUM AND 3
ORGANIZATION**

Emerging curriculum of the rapidly developing middle school. Organization of pupils, instruction, media and facilities. Recent social changes and educational innovations; practices in typical middle schools; developing instructional strategies.

Prerequisite: 1 0829 530.

**1 0829 533 CURRICULUM CONSTRUCTION IN THE 3
SECONDARY SCHOOL**

Secondary school curriculum and the needs of a changing civilization. Effective means of curriculum construction.

Prerequisite: 1 0829 530; majors only.

1 0829 534 STRATEGIES FOR CURRICULUM CHANGE 3

Principles and concepts from sociology, social psychology, educational administration and curriculum applied to education. Opportunity to develop change strategies for particular field settings.

Prerequisite: One and one-half years of successful teaching experience under certification.

**1 0829 535 DESIGNING CURRICULUM FOR AFFECTIVE AND 3
HUMANISTIC EDUCATION**

The design and implementation of curricular approaches to emotion and process phenomena in the school; evolution, theory and current practice experientially evaluated. Workshops to devise original design models, and simulative and micro-teaching sessions to demonstrate competence in their application.

Prerequisite: 1 0829 530, and Educational Psychology.

1 0829 537 THE STUDY OF TEACHING AND CURRICULUM 3

The teaching process, the varieties of teaching models and metaphors, underlying philosophical considerations and the relationship between teaching and learning outcomes.

Prerequisite: Three years of teaching experience.

1 0829 546 EDUCATION OF THE GIFTED AND TALENTED 3

Course will focus on the components necessary for planning and implementing program for gifted and talented students: definition and identification procedures, alternative organizational patterns, curriculum design, instructional strategies and materials, teacher selection and program evaluation.

Prerequisite: Educational Psychology.

1 0829 550 MICROCOMPUTERS IN CURRICULUM AND CLASSROOM TEACHING 3

The course is designed to develop in teachers skills and knowledge which will help them use computers in their teaching. The skill areas are those involving word processing, data base management, and test construction. The knowledge areas include software evaluation and methods of computer based instruction-tutorials, drill and practice, simulations, games and tests.

1 0829 600 M.A.T. SEMINAR: RELATING INSTRUCTIONAL THOUGHT AND PRACTICES 3

Seminar course providing in-depth study of selected topics related to current classroom problems based on sound educational theory and practice. The comprehensive examination for the M.A. (major in teaching) will be based on this course.

Prerequisite: Completion of 30 semester hours in M.A.T. program.

1 0829 609 TRANSITIONAL SEMINAR I 1

This course provides participants with an opportunity to integrate major content of Phase I and set goals for remainder of program.

Prerequisites: Phase I courses for M.Ed., matriculation in program (M.Ed.).

1 0829 610 INDEPENDENT STUDY IN CURRICULUM AND TEACHING 1-3

An opportunity for practicing teachers to develop and implement curricula under the guidance of curriculum development specialist. Student should discuss proposal with a faculty sponsor in the department of Curriculum and Teaching and secure permission prior to registration. Especially appropriate for teachers involved in "T&E" planning.

Prerequisite: 1 0829 530 Principles of Curriculum Development.

1 0829 635 RESEARCH SEMINAR IN CURRICULUM CONSTRUCTION 3

Individual advanced work in curriculum construction. Admission upon approval of the instructor.

Prerequisites: 1 0829 530 and 531, or 532, or 533.

INSTITUTE FOR ADVANCEMENT OF PHILOSOPHY FOR CHILDREN

Course Descriptions

Semester Hours

9 4999 510 TEACHING PHILOSOPHICAL THINKING I AND II 6

This course aims to acquaint prospective teachers with reasoning skills that are employed in everyday conversation, reading, listening, and writing so as to prepare teachers to encourage children in the use of such skills. Course represents a range of inquiries which in traditional philosophy would be known as philosophy of language, metaphysics, aesthetics, ethics, philosophy of science, and epistemology. However, this content has been reconstructed to make it accessible to children.

9 4999 511 TEACHING PHILOSOPHICAL THINKING III 3

The aim of this course is to assist prospective teachers to operationalize reasoning skills and to utilize certain aspects of philosophy of language, aesthetics, and epistemology for the enhancement of writing skills.

Prerequisite: 9 4999 510.

9 4999 512 VALUE THINKING SKILLS 3

Prospective teachers are introduced to the techniques by which reasoning can deal with moral issues in the objective and impartial fashion known as ethical inquiry for children.

9 4999 513 SOCIAL THINKING SKILLS FOR CHILDREN 3

This course will enable prospective teachers who have already taken the foundational course in philosophy for children to teach children to apply basic reasoning skills to the social studies. The program, therefore, represents an integration of philosophy, logic and the social sciences. It is also a way of presenting the social studies as a discussion course in which the conceptual foundations of the behavioral sciences are reviewed and appraised.

Prerequisites: 9 4999 510, 511.

9 4999 614 SCIENTIFIC THINKING SKILLS FOR CHILDREN: 3 METHODS OF RESEARCH

This course helps prospective teachers understand some of the ways in which thinking skills can be applied to basic concepts in the physical sciences. It, therefore, focuses upon the intersection between philosophy of science, scientific methodology, and educational research.

9 4999 615 REASONING FOR THE DISADVANTAGED 3

Students will consider problems of cognitive functioning of disadvantaged children, especially in urban area. Attention will be given to children with learning disabilities. Special attention will be given to problems of linguistic interaction specific to the inner city and to identification of the educational and social factors responsible for lagging cognitive performance in the schools.

EDUCATIONAL FOUNDATIONS

Chairperson: Dr. Thunder Haas

The Department of Education Foundations has the dual responsibility of serving and improving established educational programs while meeting new and critical needs of society through philosophic and sociological theory, comparative study, and administration of new, innovative programs. In keeping with these professional responsibilities, the department offers foundations courses for the preparation of professional public school educators, and at the same time satisfies specialized demands emanating from social, political, ethnic & cultural problems.



EDUCATIONAL FOUNDATIONS

Course Descriptions

Semester Hours

- 3 0821 520 DEVELOPMENT OF EDUCATIONAL THOUGHT 3**
Intensive study of philosophic assumptions from classical to modern schools of thought as they relate to educational theory and practice. Realism, idealism, and naturalism with emphasis upon significant contributions from Plato, Aristotle, Epicurus, Locke, Rousseau, Aquinas and others will be analyzed in light of current issues.

3 0821 521 COMTEMPORARY EDUCATIONAL THOUGHT 3

Critical evaluation of schools of philosophy which have contributed to educational thought in modern times; pragmatism, progressivism, existentialism, perennialism, reconstructionism, and other. Current trends and problems; principles underlying educational theory and practice.

3 0821 522 PRAGMATISM IN EDUCATION 3

An intensive study of the doctrines and principles developed in the writings of John Dewey and his followers, with special reference to critical issues in education today. Instruction into pragmatic thought through the writings of Dewey, Pierce, and James, & the implications of this philosophy studied through the works of Kilpatrick, Counts, Bode, Childs, Bramald, and others.

3 0821 523 EXISTENTIALISM IN EDUCATION 3

Existential motifs in Sartre, Kierkegaard, Nietzsche, Heidegger, Buber and Camus with emphasis on the implications for educational aims, curricula, methods and values. Works of Morris, Kneller, Greene and Harper, who have begun to define existentialism for education today.

**3 0821 530 FOUNDATIONS OF BILINGUAL/
BICULTURAL EDUCATION 3**

Survey and introduction to bilingual schooling in the U.S. with special reference to historical backgrounds; typology and definitions; programs, practices, and staff development; overview of court decisions and legislation affecting bilingual education.

**3 0821 532 INTERPERSONAL RELATIONS BILINGUAL
CHILDREN 3**

Survey and analysis of interpersonal relations of Puerto Rican children, including examination of cultural life style, psycho-social development, family socialization process and self-identity, and economic situation, to enable the teacher of Hispanic-American students to deal effectively, constructively, and empathetically with them.

3 0821 540 SOCIAL FORCES AND EDUCATION 3

Examination of various facets of society that have impact of the educational system: economic, political, social, ethnic and religious forces as they relate to problems of educational systems. Field studies included.

3 0821 544 SOCIAL CLASS AND EDUCATION 3

Social, ethnic and racial customs as they relate to class structure and educational values. Traditions of various social groups and their effect on American education.

3 0821 545 POLITICAL FORCES AND EDUCATION 3

Influences of the political structure and the educational system on each other. Specific roles played by education and educational leaders in government bodies at various levels.

3 0821 548 CRUCIAL ISSUES IN AMERICAN EDUCATION 3

A study of the origin, development, and status of very specific crucial issues in the field of education: equal opportunity for education, racial integration, and education; federal aid to education; compensatory education and socio-economic deprivation; affirmative action and civil rights legislation.

- 3 0821 561 EDUCATION IN WESTERN EUROPE 3**
Variations in educational thinking and practices in selected European countries. Factors influencing educational developments such as political, ideological, socio-economic forces and the relationship between school systems and their cultural contexts.
- 3 0821 564 EDUCATION IN LATIN AMERICA 3**
The basic Latin American social, economic and cultural structures and how they relate to secondary school and university systems.
- 3 0821 580 TEACHING PHILOSOPHY TO CHILDREN 9**
Skills and background essential for teaching philosophical thinking in the classroom. Teachers will be introduced to the curriculum materials in philosophy for children as well as the history of philosophical ideas which form an essential component of the approach. (This course will not count toward the undergraduate major in philosophy.)
- 3 0821 581 FOUNDATIONS OF REFLECTIVE EDUCATION 3**
Attention will be given to the basic techniques of forming classroom communities of inquiry through the study of the broad historical tradition of educational philosophy from Plato to Passmore. Particular attention will be given to philosophers who have dealt with the nature of reflection, thinking skills, ethical inquiry, pedagogical methods, children's rights, dialogue, community, personhood, and the general aims of education.



EDUCATIONAL LEADERSHIP

Chairperson: Dr. Anne C. Castens

Graduate Advisors:

Educational Leadership:

Administration and

Supervision:

Reading:

Research and Evaluation:

Media and Technology in

Education:

Dr. Lawrence Bellagamba

Dr. Anne Castens

Dr. Frank Merlo,

Dr. David Weischadle

Dr. Joseph Brunner,

Dr. Maria Schantz

Dr. Joy Stone

Dr. Gerhard Lang

Dr. Grosvenor Rust

Educational Leadership, working with other departments of the College and the School, prepares educational leaders in the broadest sense. Programs of graduate study leading to the Master of Arts in Administration and/or Supervision, Reading, and to post-M.A. studies, are offered. In addition, the department offers courses at the graduate level in administration and supervision, education research and evaluation, media and technology in education, and reading.

The majority of the graduate programs are directed toward certification as supervisor, principal, school administrator, business administrator, reading teacher, reading specialist or media specialist. A comprehensive study of the field of Educational Leadership is encouraged, however.

Certification programs are also available to those holding a teaching certificate and M.A. degrees in a subject area and desiring certification as supervisors or administrators.

A new concentration (non-state certificate bearing) in the Master of Arts degrees in Administration and Supervision, the Educator/Trainer concentration, has been designed for training personnel in business and industry.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION

(For school personnel)

Three years of successful teaching experience under certification are required for certification as Supervisor or Administrator.

Our programs provide solid scholastic foundations in the multi-faceted purposes of education in a democratic society. They combine study with close

observation and practice in various communities and agencies. The graduate programs in the department prepare students for positions as:

1. Major administrative or supervisory personnel at all levels of educational systems.
2. Educational managers and planners in the media fields. (e.g. media specialist)
3. Reading specialists or consultants.
4. Educational researchers, evaluators and testing specialists.

Our effort to select candidates carefully and lead them to be able to:

1. Develop a personal philosophy of education and social ethic consistent with related theories of learning and human development.
2. Develop characteristics required for effective leadership in education.
3. Analyze educational organizations, and plan programs and strategies for increasing organizational effectiveness.
4. Develop techniques to facilitate interpersonal and group problem-solving and decision making.
5. Develop skills in managing change and conflict in educational endeavors.
6. Interpret research findings and design and implement research techniques to their organizational needs.

ADMISSION REQUIREMENTS

In addition to the admission requirements for graduate study at Montclair State College, students wishing to matriculate into the Master of Arts program in Administration and Supervision in the Department of Educational Leadership must first complete requirements listed in Phase I of the program or be enrolled in the last course in Phase I.

Admission to Phase I (pre-matriculation) requires:

1. A valid teaching certificate issued by a State Department of Education.
2. One and one-half years of successful teaching experience under contract or other employment judged as suitable educational experience by the department.

Students who wish to move from Phase I (pre-matriculation phase) to full matriculation in the program must apply to the Department of Educational Leadership.

The process leading to full matriculation includes:

1. A departmental interview.
2. A matriculation examination scheduled at the time of the matriculation interview.
3. An updated statement of personal goals written at the time of the matriculation interview.

Other requirements for full matriculation include:

1. Successful completion of Phase I requirements (or completing last course).
2. Two years of successful teaching experience under contract.

3. Recommendations from three educational leaders familiar with the professional work of the candidate. One recommendation must be from an instructor in Phase I.
4. Competency in written and spoken English as determined by the matriculation interview and the updated statement of goals.
5. Personal characteristics of leadership.

A student must apply for pre-matriculation before completing six semester hours of course work in Phase I of the Administration and Supervision program in order to determine the student's eligibility for the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

PROGRAM REQUIREMENTS

	Semester Hours
I. Phase I Requirements	12
0824 503 Methods of Research	3
A graduate course offered in learning theory and application.....	
	3
0827 510 Educational Administration I	3
0842 564 Dynamics of Group Process or the successful completion of a course in group dynamics at the graduate level of any accredited college, or by participation in a Human Relations Laboratory of at least one week's duration conducted by an accredited institution	3
II. Phase II Requirements	9
0829 530 Principles of Curriculum Development	3
0827 540 Supervision I (Principles)	3
0827 520 Systems Analysis	3
III. Phase III Requirements	12-21
0827 615 Field Experience in Administration and Supervision	3

Electives to be selected after consultation with the advisor, and listed in the Master of Arts work program. They may be selected to satisfy certification requirements. Certain courses outside the School may be selected. A concentration in Media or Educational Research and Evaluation is possible with Supervisor's Program.

IV. Comprehensive Examination

Minimum: 33-36 semester hours

ADVANCED GRADUATE STUDY IN ADMINISTRATION AND SUPERVISION

Students holding a Master of Arts degree and New Jersey certificate for Principal, who wish to continue planned graduate study of thirty additional semester hours, will be required to meet all matriculation requirements for admission to the Master of Arts program in Administration and Supervision, and make a satisfactory grade on a comprehensive examination covering the field. Such a program will need to be approved by a faculty advisor so as to meet the professional goals of the student, including certification for the School Administrator's Certificate (Superintendent of Schools) in New Jersey.

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN ADMINISTRATION AND SUPERVISION-CONCENTRATION FOR EDUCATOR/TRAINER

(Training Personnel)
(nonstate certificate bearing)

This program provides solid scholastic foundations with close observation of the applications and implementation of theoretical principles. Graduates will serve as supervisors of trainers in corporate management, basic skill training in industry, civil service training, library/museums, health services, banks, research project management, and human resource management.

Graduates of this program will learn to:

1. Develop a personal philosophy of organizational training consistent with the related theories of adult learning and human development.
2. Develop effective leadership skills in educational training programs.
3. Analyze organizations and plan programs and strategies for increased effectiveness.
4. Develop techniques for interpersonal and group problem solving and decision-making.
5. Develop skills in managing change and conflict.
6. Interpret research findings and design and implement research techniques to their organizational needs.

A student must apply for pre-matriculation before completing six semester hours in the program.

Transfer students wishing to have recognized course work which has been taken at another accredited institution must take at least two Phase I courses at Montclair State College within the last five years before matriculation.

In summation, final action on matriculation is based on the requirements of the Office of Graduate Studies and of the department and any special individual requirements assigned to the student by the Educational Leadership faculty.

ADMISSION REQUIREMENTS

1. A bachelor's degree from an accredited institution of higher education.
2. Satisfactory performance on Graduate Record Examination.
3. Competency in oral and written English.
4. A minimum of one and one-half years of work experience (business or teaching).
5. Personal leadership characteristics as evidenced in a departmental interview.
6. Satisfactory completion of Phase I course work.
7. Recommendation from three individuals familiar with candidate's capabilities (one from instructor in Phase I).

Students are considered "pre-matriculated" until completing the first twelve credits in the program. To move from Phase I (the pre-matriculation phase) to full matriculation in the program, they must apply to the Department of Educational Leadership after or while completing the twelve credits.

The process leading to full matriculation includes:

1. A departmental interview.
2. An updated statement of personal goals written at the time of the matriculation interview.
3. Validation of 1½ years work experience.

PROGRAM REQUIREMENTS

	Semester Hours
I. Phase I Requirements	12
0824 503 Methods of Research	3
0826 559 Dynamics of Group Process	3
0827 509 Administration of Education and Training Programs	3
2001 549 Psychology of the Adult Learner	3
II. Phase II Requirements	15
0827 531 Program Planning and Development	3
0827 542 Supervisory Skills for Education and Training Personnel	3
9 elective credits (approved by adviser, in area of specialization	9
III. Phase III Requirements	9
0827 628 Field Experience or Internship	3 or 6
2 electives in major field approved by adviser	6
	36

REQUIREMENTS FOR MASTER OF ARTS DEGREE IN READING

ADMISSION REQUIREMENTS

Provision is made in this program to matriculate students who have demonstrated interest and ability suitable to reading education. Applicants shall furnish

acceptable evidence of talent appropriate for competence in reading instruction. Letters of recommendation from the school system superintendent or the school building principal will be acceptable. Final matriculation is the departmental decision; prerequisites will be determined by departmental advisement.

PROGRAM REQUIREMENTS

	Semester Hours
I. Basic Professional Education	6
0824 503 Methods of Research (required)	3
Elective in School of Professional Studies	3
II. Required Courses in Reading	12
0830 500 The Nature of Reading	3
0830 511 Case Studies of Reading Difficulties	3
0830 513 Corrective and Remedial Reading I	3
(written permission required)	
0830 505 Research Seminar in Reading	3
(written permission required)	
III. Elective Courses in Reading	6
Students must take additional reading electives in order to meet special- ization requirements.	
0830 501 Techniques of Reading Improvement in Secondary Schools	3
0830 502 Administration and Supervision of Reading Programs	3
0830 503 Literature for Adolescents	3
0830 504 Reading Needs of Adult Learners	3
0830 506 Reading Resources	3
0830 509 Teaching of Communication Skills	3
(Open to M.A.T. and certification students only)	
0830 510 Field Experience in Reading	3
0830 512 Seminar in Reading Difficulties	3
0830 514 Corrective and Remedial Reading II	3
(written permission required)	
IV. Free Electives	6
Any graduate courses offered by the College.	
V. Additional Department Requirements	
A. Supervised clinical experience within the framework of required courses and/or in addition to course work. Arrangements will be made to provide this experience in the Montclair State College Read- ing Center.	
B. A written comprehensive examination, supplemented if necessary by an oral examination, or an equivalent comprehensive experience de- termined by the department.	
C. A reading portfolio containing representative work and personal con- tributions in reading will be compiled by the student. This portfolio will be used to diagnose students' strengths and weaknesses as they progress thorough the program.	

Minimum: 33 semester hours

In March 1976, the New Jersey Board of Education passed a proposal for a six-semester hour or two-course requirement in the teaching of reading as it pertains to the field for which certification is being sought. This requirement became effective in September 1977. Courses are available through the Reading Program.

Students seeking Teacher Certification, therefore, must complete the following reading courses prior to filing for certification:

0830	407	Reading I: Theory and Process	3
0830	408	Reading II: The Content Areas	3

PROGRAM LEADING TO THE READING SPECIALIST CERTIFICATE

Minimum Requirements: Initial teaching certificate, two years of teaching experience and a program of 30 hours of study. See advisors for further information.

MEDIA AND TECHNOLOGY IN EDUCATION

The instructional media courses offered below are available as a sequence of study to meet the educational media specialist certification requirements. Persons wishing to prepare for one of the two certificates should arrange for a conference with the proper advisor.

A master's degree and either a standard New Jersey Teacher's Certificate or an Associate Educational Media Certificate are required as prerequisites to the issuing of the Educational Media Specialist Certificate. A bachelor's degree and a standard New Jersey Teacher's Certificate are required as prerequisites to the issuing of the Associate Educational Media Specialist Certificate. Course descriptions for the related undergraduate program leading to this last certificate are provided in the undergraduate catalog.

The following senior graduate level courses are open to graduate students pursuing certification under the 1974 media certification act. Approval of graduate advisor is required for inclusion in a program of study.

4	0840	401	Fundamentals of Cataloging and Classification	3
4	0840	402	Reference and Bibliography for School Resource Centers	3
4	0840	403	Reading Materials for Children and Youth: Selection and Evaluation	4
4	0840	420	Teaching Materials Workshop	3
4	0840	430	Television Services in a Single School Media Program	3
4	0840	445	Audio Technology in Education	3

EDUCATIONAL LEADERSHIP

Course Descriptions

Semester Hours

4 0824 503 METHODS OF RESEARCH

3

Theory and methods of historical, descriptive, and experimental research; formulation of a research problem; use of bibliographical sources and reference materials; statistics and measurement in research; types and instruments of research; data collection and analysis. Writing the research report, and career opportunities in research.

4 0824 578 TESTING AND EVALUATION

3

Principles and practices of educational and psychological testing and evaluation relevant to professionals in human services, communication sciences and disorders, education, and related fields. Historical/philosophical orientation; place of testing in instructional and remedial programs; statistical concepts underlying measurement; validity, reliability, response set; construction of tests and measurement instruments; evaluation and interpretation of testing data; use and misuse of testing data; reporting data to students, parents and colleagues; critical analyses of selected standardized intelligence, ability and personality tests; experimental tests and measurement instruments. Course project geared to individual student needs.

4 0824 580 LEARNING: PROCESS AND MEASUREMENT

3

Study of the learning process and its measurement as it applies in the classroom and non-school settings.

4 0824 650 INDEPENDENT STUDY IN EDUCATIONAL RESEARCH AND EVALUATION

3

Designed for individuals who, in consultation with advisor, wish to undertake an in-depth analysis of a specific research problem.

Prerequisite: Advisor's permission.

4 0827 509 ADMINISTRATION OF EDUCATION AND TRAINING PROGRAMS

3

This course prepares the present or prospective administrator to manage an education or training program in a non-school setting. Administrative theory, organizational functions, personnel and staff requirements as well as program design and development will be examined and studied. The course is designed for the educational administrator in both public and nonpublic agencies as well as in profit-making or nonprofit organizations.

Prerequisite: One and one-half years of work experience.

4 0827 510 EDUCATIONAL ADMINISTRATION I

3

Nature and dynamics of organizations from the viewpoints of social and behavioral sciences. Leadership, decision-making, conflict resolution and other theories considered in the educational setting. Impact of environmental and personal forces on organizational behavior.

Prerequisite: One and one-half years of successful teaching under certification.

4 0827 512 ADMINISTRATION OF ELEMENTARY SCHOOLS 3

Educational leadership required for effective elementary school organization & administration. Changing role of the principal, relationships with staff and students and current principles, practices and techniques with regard to scheduling, staff utilization, plant operation, student activities and school community relations.

Prerequisite: Educational Administration 4 0827 510.

4 0827 513 SECONDARY SCHOOL ADMINISTRATION 3

Special administration problems of the junior and senior high school. Recruitment of staff; scheduling of teachers, organization and school morale, and recent experiments of organizational structure. Supervision of instruction as a major function of administration. Current demands of adults in the community. How the secondary school operates in relation to the elementary school and higher education to help design education as a continuous process. Students write a paper on a special administrative problem.

Prerequisite: 4 0827 510.

4 0827 520 SYSTEMS ANALYSIS IN EDUCATION AND TRAINING 3

Latest techniques in operations research for educational purposes. Systems analysis techniques studied and utilized by student in an instructional, curriculum or administrative mode. Simulation techniques in classroom-oriented activities.

Prerequisite: 4 0827 510 and 0829 530.

4 0827 521 EDUCATION LAW 3

Legal-theory, practical politics, relationship of school district organization to other units of government, appellate function of the state Commissioner of Education and the state Board of Education, New Jersey school laws (Title 18A of the revised statutes) and rules and regulation of the state board of education and their decisions. New Jersey school legal structure compared with that of other states.

4 0827 522 USE OF COMPUTERS IN EDUCATIONAL ADMINISTRATION 3

This introductory course provides for the school administrator an overview of the computer, its development and applications in education, and the nature of the computer operational requirements in an educational organization. Also included will be the elements of an educational management information system (EMIS), computer staff supervision, and use of computers in such areas as testing, record keeping, attendance and report preparation.

Prerequisite: 4 0827 510.

4 0827 524 EDUCATION LAW II 3

This course is principally designed for the experienced public school teacher, administrator and board of education member. Such topics as school district and employee liability, negligence, and the constitutional and statutory rights of the school employee and student are fully explored. Pertinent administrative law and court decisions are reviewed using the case study method.

Prerequisite: 4 0827 521.

4 0827 526 SCHOOL BUSINESS ADMINISTRATION 3

Role of school business administration in the public school. Various functions, structures and techniques of operation. Simulation techniques utilized to construct both a traditional and PPBS budget.

Prerequisite: 4 0827 510.

4 0827 528 FINANCIAL MANAGEMENT FOR EDUCATION AND TRAINING PERSONNEL 3

This course provides an introduction to budgets systems, financial management, general accounting procedures, and the process of reporting for training personnel. Also included will be discussions of the development of financial reports related to training, as well as experience in the use of cost-benefit analysis techniques. Financial terminology will be included in the overall course development.

4 0827 531 PROGRAM PLANNING AND DEVELOPMENT 3

This course provides education and training personnel with experience in the principles and techniques of designing training programs in the organizational setting. Special attention will be placed on organizational needs analysis and program development in skills areas and staff development. Students will design a total program and individual lessons for education and training efforts in a variety of simulated settings.

Prerequisite: One and one-half years of work experience.

4 0827 540 SUPERVISION I 3

School personnel as principals, coordinators and department and subject area supervisors in elementary and secondary schools. Contribution of supervisors in instruction and in supporting the professional work of classroom teachers.

Prerequisites: Two years of teaching experience and 4 0827 510.

4 0827 542 SUPERVISORY SKILLS FOR EDUCATION AND TRAINING PERSONNEL 3

This course provides the present and prospective education and training supervisor in a public or non-public, profit or non-profit setting with instruction in course/program assessment, personnel selection procedures, staff evaluation processes, and material/equipment procurement. Also included is training manual development and use.

Prerequisite: 4 0827 509.

4 0827 543 THE CLINICAL SUPERVISOR 3

Role of the supervisor in implementing clinical supervisory practices. Simulation techniques utilized to develop observation and conference techniques as well as the development of professional improvement plans.

Prerequisites: 4 0827 510, 4 0827 540.

4 0827 545 LEADERSHIP SKILLS IN COMMUNICATION FOR THE EDUCATOR/TRAINER 3

This course provides experience in basic leadership skills for the educator/trainer: communication skills, report writing skills, listening skills, and presentation skills, students will prepare actual reports, presentations, and reactions, verbal and/or written, to problem situations. Audio and video taping of individual skills presentation of simulated situations will be an important component of the course. Increasing training and supervisory effectiveness through the improvement of communication skills will be the major focus of this course.

4 0827 612 THEORIES AND STRATEGIES IN EDUCATIONAL ADMINISTRATION 3

Processes and findings of organization science applied to educational problems. Frameworks for instruction, personnel, finance, facilities, service and public participation at the school district level. Emphasizes issues, trends and contemporary problems.

Prerequisite: 4 0827 510.

4 0827 615 SUPERVISED FIELD EXPERIENCE IN ADMINISTRATION AND SUPERVISION 3

Students are assigned work within an educational agency, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the administrator. A written report on the activity or research paper will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

Prerequisite: Permission of a graduate advisor. Graduate program matriculation required.

4 0827 616 INTERNSHIP IN EDUCATIONAL ADMINISTRATION 6

Full semester assignment of guided work within an educational institution's administrative office. Sixth year students are eligible to choose this internship plan, but it is advised that arrangements be made for released time, at least one half time, if the internship is to be carried on in an institution where student is employed. The experience is planned to include a wide variety of administrative experiences such as locating and interviewing candidates for position, scheduling, inservice professional development, special committee leadership, projects that influence curriculum building arrangements and budgets. The sixth year student may be required to take 1 0827 610 or 611 for three additional semester hours during this internship. In all cases, students will complete the research project as part of the internship assignment.

Prerequisite: Open only to matriculated students. Graduate advisor's permission.

4 0827 618 INDEPENDENT STUDY IN EDUCATIONAL ADMINISTRATION AND SUPERVISION 1-3

Individual pursuit of a research topic in the area of administration or supervision, culminating in a written document of scholarly proportion and integrity. Arrangements for this course should be made with department chairperson or advisor.

Prerequisites: Open only to advanced matriculated students in programs, with permission of department chairperson.

4 0827 621 SCHOOL PLANT PLANNING 3

The relationship between educational facilities and educational programs. Site selection, development of educational specifications, the physical environment, selection of equipment, programming of various facilities based on curricula and community needs. Group visits to exemplary educational facilities. Prerequisite: 4 0827 510.

4 0827 622 SCHOOL FINANCE 3

Current economic environment; state, local and federal taxation; state school aid theory and practice; school district indebtedness; statutory school budget and fiscal controls; various cost-quality instruments and role of school fiscal structure in relation to local, state and federal governments.

Prerequisite: 4 0827 510 and 521.

4 0827 624 SCHOOL PLANT MAINTENANCE AND OPERATION 3

Latest techniques in the maintenance and operation of the school plant. Various specialists in specific areas of study utilized in the instructional program. Determination of work loads, formulation of job descriptions, supply storage, care of mechanical and hand tools and equipment and care of the school site. (Not offered every year.)

Prerequisite: 4 0827 510.

4 0827 628 FIELD EXPERIENCE IN ADMINISTRATION AND SUPERVISION FOR EDUCATORS/TRAINERS 3 or 6

Students are assigned to a particular office, under guidance of a supervisor, to carry out certain functions of the position. A college staff member acts as coordinator and supervisor by visiting site and consulting with student, observing him in action; plans with site supervisor for improvement and evaluation of student's work.

4 0827 629 ACCOUNTING, AUDITING, AND REPORTING FOR SCHOOL SYSTEMS 3

The course will provide students with the knowledge and skills required to initiate and maintain a school district's accounting, auditing, and reporting program. Emphasis is placed on the terminology and processes required to insure local school district financial accountability. New Jersey operational requirements will be stressed.

Prerequisites: 4 0827 521, 526.

4 0827 643 STAFF PERSONNEL ADMINISTRATION AND SUPERVISION 3

Personnel practices and problems in current school situations. Roles of policy-making bodies, the public, professionals, para-professionals and general staff in recruitment, selection, retention and evaluation of staff.

Prerequisites: 4 0827 510 and 540.

4 0827 644 COLLECTIVE BARGAINING, IMPASSE AND GRIEVANCE RESOLUTION 3

Analysis of New Jersey public relations law (chapter 123, New Jersey public laws of 1974). Simulations and case studies to illustrate negotiations, grievance, and impasse procedures.

Prerequisites: 4 0827 510 and 540, instructor's permission.

4 0827 670 SELECTED TOPICS IN EDUCATIONAL ADMINISTRATION/SUPERVISION 1-3

Emphasis on in-service education for practicing administrators and or supervisors. Topics will vary in accordance with needs, concerns, or requests of school districts or professional organizations desiring service. Current problems are given priority. Credits to be dependent upon number of hours workshops and/or seminars are in session.

Prerequisite: For practicing administrator or supervisors only.

4 0830 500 THE NATURE OF READING 3

The foundations of reading: the nature of the reading process, readiness, beginning instruction, current practices in the teaching of reading in early childhood and elementary education, a reappraisal of the role of reading in a technological society.

4 0830 501 TECHNIQUES OF READING IMPROVEMENT IN THE SECONDARY SCHOOL 3

The improvement of non-clinical reading difficulties in the content subjects. For the subject area teacher and the beginning reading specialist. Secondary school reading needs and specific suggestions for guiding the slow, average, and gifted student in a classroom situation.

4 0830 502 ADMINISTRATION AND SUPERVISION OF READING PROGRAMS 3

The more complex aspects of organizing and administering reading programs: theory and techniques of leadership, program development, organization of in-service programs, developing a budget, methods of evaluation, etc. Essential background for reading specialists to establish or administer a functional school reading program.

4 0830 503 LITERATURE FOR ADOLESCENTS 3

Background for the development of recreational reading programs in junior and senior high schools. Literature written for students, as well as literature intended to be read widely by adolescents, criteria for book selection, censorship, role of mass media, minority group identification through books, bibliotherapy, bibliographic tools, and the importance of the librarian.

4 0830 504 THE READING NEEDS OF ADULT LEARNERS 3

For teachers of out-of-school youth and adults. Language learning and related psychological factors; methodology and reading instruction; literature and the reading program and innovations in reading instruction.

4 0830 505 RESEARCH SEMINAR IN READING 3

Problems in the field of reading suggested by the educational events and trends, the members of the class, and by educational movements in New Jersey, the country, and the world. Each student will execute an individual research effort.

Prerequisite: Written permission of advisor.

4 0830 506 READING RESOURCES 3

Software, hardware, multi-media and multi-sensory materials available in schools and in adjunct facilities; philosophic, psychological and academic considerations of reading resources. Video tape demonstrations of materials.

4 0830 507 UNDERSTANDING READING COMPREHENSION 3

This course provides for educators and others an understanding of the processes underlying the processing of visible language, particularly the types commonly found in written texts used in educational settings. The instructor will explore with the participants the affective, cognitive, linguistic, pragmatic, and textual variables pertaining to the formulation of meaning in reading. The eventual outcome of the course will be the creation of a conceptual framework for the comprehensibility of written materials couched in terms of the interaction among the reader, the text, and other pragmatic variables.

Prerequisites: 4 0830 500, 501.

4 0830 510 FIELD EXPERIENCE IN READING 3

Agencies and programs dealing with reading. Students observe, participate, and report activities of the agencies. For students in long-range research with limited teaching experience, who need additional field and clinical experience. Independent study.

Prerequisite: Permission of reading advisor.

4 0830 511 CASE STUDIES OF READING DIFFICULTIES 3

This is a basic course in learning the techniques for diagnosing reading difficulties; for diagnosing the most frequently used tests and inventories; the actual testing of a child with reading problems. Group and individual tests, survey and diagnostic tests, and standardized and informal tests; reporting to parents, schools and agencies. The course is geared to develop skills in diagnosing reading problems for individuals which will be used by the clinician for treating remedial and corrective students. Additional diagnostic hours arranged.

Prerequisite: 4 0830 500 and instructor's permission.

4 0830 512 SEMINAR IN READING DISABILITIES 3

Significant problems in the field of reading disability; historical and emerging models used in reading diagnosis.

4 0830 513 CORRECTIVE AND REMEDIAL READING 3 PART I CAUSATION

For advanced students and specialists involved in some aspect of remedial instruction. Part I investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged.

Prerequisite: Written permission of the instructor required.

4 0830 514 CORRECTIVE AND REMEDIAL READING 3

PART II TREATMENT

For advanced students and specialist involved in some aspect of remedial instruction. Part I investigation and interpretation of serious reading problems; causes of reading difficulties; techniques of remedial and corrective treatment. Part II selection and adaptation of suitable improvement devices, materials and ideas; intensive treatment in a practicum situation. Clients are drawn from the classes in the reading laboratory. Additional tutoring hours will be arranged. Prerequisite: Written permission of the instructor required.

4 0840 500 MEDIA, TECHNOLOGY, AND LEARNING 3
IN THE CURRICULUM

The organizing and integrating of media in school curricula and other educational programs. Identifying instructional purposes and defining roles for technology and media in learning and teaching. Examining and comparing curriculum designs for their concordance with the procedures of technology in education. Selection and evaluation of materials.

4 0840 520 PRODUCTION OF MATERIALS FOR MEDIA 3
TECHNOLOGY

For developing advanced proficiency in preparing audio, photographic, and graphic materials. Especially for persons charged with materials preparation in media centers. Laboratory instruction.

4 0840 521 DESIGN OF INNOVATIVE CURRICULUM 3
RESOURCES

Emphasis systems design, software, program development, creative development of media for special learning situations, basic design of programmed instruction and multi-media techniques.

Prerequisite: 4 0840 520.

4 0840 525 PHOTOGRAPHIC COMMUNICATION IN EDUCATION 3

Offered for the development of competency with the photographic processes and equipment commonly used in producing educational media. Extensive laboratory and camera work required. Emphasis is on proficient creativity for instructional utilization.

Prerequisites: Approval of instructor as to background in photography and ownership of adequate equipment.

4 0840 540 TELEVISION PRODUCTION IN EDUCATION 3

Combination lecture, laboratory and seminar experiences in television, elements of television set design, functions of floor director, control room operations and basic television directing.

4 0840 541 TELEVISION PROGRAMMING IN EDUCATION: 3
INDEPENDENT STUDY

Combination lecture, laboratory and seminar in programming, conceptual creativity, pre-planning, execution of ideas and evaluation of presentations. Selection and design of hardware.

Prerequisite: 4 0840 540 or equivalent course, instructor's permission.

- 4 0830 514 CORRECTIVE AND REMEDIAL READING 3**
4 0840 550 ADMINISTRATION AND SUPERVISION OF 3
MEDIA IN EDUCATION

Provides training for management of integrated instructional resources programs. Emphasis is on the practical day-to-day problems of control, production, acquisition, utilization, finance, staffing, organization and evaluation for the provision of media and technology in educational enterprises. Additional attention is given to community relationships and special services.

- 4 0840 570 DEVELOPING MATERIALS FOR COMPUTER 3**
TECHNOLOGY IN TRAINING AND EDUCATION

Design, organization, and presentation of subject matter in computer based instruction. Emphasizes user-friendly modes. Includes media insertion, storyboarding, flow design, pseudocoding, and pedagogical control. Investigates authoring systems and languages. Does not include programming training.

- 4 0840 610 RESEARCH AND DEVELOPMENT SEMINAR IN 3**
INSTRUCTIONAL TECHNOLOGY AND RESOURCES

A seminar on application of research findings to the design and utilization of instructional media and resources. Emphasis is on the extraction of practical utilization based upon research findings.

- 4 0840 615 SUPERVISED FIELD EXPERIENCE FOR 3**
EDUCATIONAL MEDIA CERTIFICATION

Students are assigned work within an educational media center, operating at the level and in the domain of their professional specialty. They work under an established administrator on some limited function of the position, approved through mutual agreement among the student, the administrator and the college supervisor. This experience is not to be construed as an internship, as it will not encompass the total job description of the media specialist. A written report on the activity will be approved by the administrator and presented to the college supervisor, who will evaluate the total experience.

ENGLISH AND COMPARATIVE LITERATURE

Chairperson: Dr. Rita Jacobs
Graduate Advisor:

In the master's program in literature, the student will study individual authors and their works intensively, while developing a broader understanding of literary periods, themes, and types. Students are expected to demonstrate the ability to participate in sophisticated scholarly discourse, both orally and in writing.

Within the total 33 semester hours of course work, one of four concentrations may be chosen: British literature to 1745; British literature 1745 to the present; American literature; and comparative literature. In addition, courses are offered in such special topics as the film, and the teaching of composition, literature, and basic writing.

The program serves as continuing training for in-service teachers and as preparation for doctoral-level work, as well as intellectual enrichment for students who wish to develop a deeper understanding of literature for its own sake. A significant number of M.A. graduates have, in recent years, gone on to the doctoral programs at major universities. Others have found the program to be both useful and enhancing to careers in business and government.

ADMISSION REQUIREMENTS

Candidates for matriculation in the Master of Arts program of this department must show a B average or better in their undergraduate work and a score of not less than 500 (Verbal) on their Graduate Record Examinations. Most applicants will have majored in literature (English, comparative, or foreign) at the undergraduate level. However, students with strong academic credentials may apply even if they do not have the recommended background in literature. The graduate advisor will interview each candidate for the program regarding his or her scholastic record and intellectual or professional goals.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENGLISH AND COMPARATIVE LITERATURE

	Semester Hours
I. Distribution of course work	
A. British and American Literature	
1. Seminar in Literary Research (to be taken near the beginning of the program)	3
2. Thesis Writing (to be taken at the end of the program)	3
3. A concentration in one of three major areas as follows:	9
a. British literature to 1745	
b. British literature from 1745 to the present	
c. American literature	
4. To be distributed among the remaining two major areas and the area of comparative literature	9
5. Electives	9
Minimum: 33 semester hours	

- B. **Comparative Literature.** In cooperation with other divisions in the School of Humanities and Social Sciences, the department offers students who have superior command of a foreign language (usually French or Spanish) the opportunity to concentrate in comparative literature.

Courses are focused on the interrelationships among literatures. Significant authors, ideas, movements, and literary types in different ages and cultures are selected for comparison. (N.B.: Comparative literature courses, prefixed 1503, are open to all students, regardless of their concentration. Lectures and readings are in English.)

1. Seminar in Literary Research (to be taken near the beginning of the program) 3
 2. Thesis Writing (to be taken at the end of the program) 3
 3. A concentration in comparative literature 9
 4. French or Spanish literature 9
 5. To be distributed among the three major areas of British and American literature 9
- Minimum: 33 semester hours

II. Foreign Language Requirement

Students must demonstrate a reading knowledge of a foreign language, either by passing a written examination or by earning a grade of B in the French Reading Course (1102 100), before taking the comprehensive examination or registering for Thesis Writing. Examinations normally will be given in French, German, Russian, Italian, or Spanish. Other languages may be offered with the approval of the department. Students concentrating in comparative literature will receive approval of the language of their primary area of study.

The foreign language examination is given on the last Saturdays of February and September. The French Reading Course is offered whenever there is a sufficient number of interested students, usually every other year. Students who wish to take the course should notify the graduate advisor.

III. Comprehensive Examination

All candidates for the master's degree must pass a comprehensive examination. Students concentrating in British or American literature take a three-hour written test; those concentrating in comparative literature take a two-hour oral test. Both are designed to test critical ability and familiarity with major works of British, American, and foreign literature. Students must complete one-half of their course work and satisfy the foreign language requirement before taking the comprehensive examination, and must pass the examination before registering for Thesis Writing.

The comprehensive examination is based on a reading list compiled by the student and approved by a committee of the graduate faculty. The student selects at least fifteen major works from those studied in his or her graduate program (in the case of short pieces,

a representative group by one author will be considered as one "work"). The list must include at least three of the four major areas of literary study (see Distribution of Course Work, above). In the semester before taking the examination, students should consult with the graduate advisor about the preparation of the reading list. The list must be submitted by the second week of the semester in which the examination will be taken, although earlier submission will increase the student's preparation time, and is strongly encouraged.

The comprehensive examination is given on the last Saturdays of March and October.

ENGLISH AND COMPARATIVE LITERATURE

Course Descriptions

BRITISH LITERATURE TO 1745

Semester Hours

M 1501 500 OLD ENGLISH LITERATURE 3

Specimens of Old English prose and poetry are read in the original language and studied for an appreciation of their literary art. No previous study of Old English is required. The first half of the course is spent on grammar and pronunciation, using prose from the chronicles and other works as examples. Oral recitation is required of all students. Poetry is studied in the second half of the course. Topics include the oral-formulaic tradition, the verse types, and the mixture of Christian and pagan themes characteristic of the literature.

M 1501 505 CHAUCER 3

An intensive study of the *Canterbury Tales* and other works against their literary and social backgrounds, with special attention to Chaucer's language and to the tools of Chaucerian scholarship. No previous study of Middle English is required.

M 1501 508 SHAKESPEARE STUDIES: TRAGEDIES 3

Shakespeare's tragic drama against a background of classical and medieval theories of tragedy, and in relation to the practice of his contemporaries. Consideration is given to Shakespeare's use of plot sources and to Elizabethan theories of rhetoric.

M 1501 509 SHAKESPEARE STUDIES: COMEDIES 3

Shakespeare's comic art in the light of comic theory and practice from Aristotle to the present. Areas of analysis include Shakespeare's use of Roman and native English comedy, his language, characters, and sources, and the traditions of Shakespearean criticism.

M 1501 510 SHAKESPEARE STUDIES: HISTORIES 3

A study of the ten English history plays. Shakespeare's use of historical sources and variations from historical fact are examined carefully. Attention is given to scholarship, criticism, and production of the history plays.

M 1501 511 ELIZABETHAN AND JACOBEOAN DRAMA 3

A comprehensive view of the period of the apex of English drama, from 1550 to the closing of the theaters in 1642. Major works by Elizabethan and Jacobean dramatists other than Shakespeare are studied in the light of medieval English drama and the new renaissance theories of Shakespeare's contemporaries. Attention is given to changes in subject matter, tone, dramaturgy, and staging during the latter part of the period.

M 1501 512 RENAISSANCE LITERATURE I: PROSE 3

Major prose writers of the sixteenth century, including Erasmus, More, Castiglione, Sidney, Lyly, Nashe, and Hooker. Attention is given to the development of satire, romance, the picaresque, and utopian fiction.

M 1501 513 RENAISSANCE LITERATURE II: POETRY 3

A study of English poetry of the sixteenth century, a period of major changes. The principal focus is on poets who contributed to the development of the English lyric (Wyatt, Surrey, Raleigh, Sidney, Shakespeare). The unique poetry of Edmund Spenser, particularly *The Faerie Queene*, is also examined.

M 1501 515 SEVENTEENTH CENTURY LITERATURE: POETRY 3

The poetry of Donne, Jonson, Herbert, Marvell, and Milton, supplemented by historical and intellectual background and by selections from the work of Vaughan, Traherne, Crashaw, Herrick, Suckling, Lovelace, Carew, and Cowley. Stylistic categories such as the metaphysical, the classical, and the meditative are considered in the light of a close critical analysis of the major poetry.

M 1501 518 MILTON 3

Paradise Lost, *Paradise Regained*, *Samson Agonistes*, and some of the minor works are analyzed intensively. Styles, themes, and techniques are considered in the light of Milton's life and the political and religious controversies of his times. The poetry is studied also in terms of its relation to Milton's Italian and classical models, his Elizabethan masters, and his contemporaries.

M 1501 521 THE AUGUSTAN AGE 3

The literature of the Restoration and early eighteenth century in its cultural contexts. Topics include criticism and aesthetics, satire, the new nature poetry, and the relationship between literary forms and philosophical and critical ideas. Emphasis on the works of Dryden, Swift, Pope, Gay, Addison and Steele, and Thomson.

M 1501 597 INDEPENDENT STUDY IN BRITISH LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

BRITISH LITERATURE 1745-PRESENT

M 1501 525 THE ENGLISH NOVEL FROM DEFOE TO AUSTEN 3
The rise of the English novel and its various traditions: comic, realistic, satirical, psychological, and Gothic. Authors include Defoe, Richardson, Fielding, Smollett, Sterne, and Austen.

M 1501 529 BRITISH ROMANTICISM I: WORDSWORTH AND COLERIDGE 3

The poetry of the two most important writers of the first generation of the Romantic movement in England. Emphasis is placed on the significance of their poetry in terms of the poets' own personal experience and in the context of the age of democratic and industrial revolution.

M 1501 530 BRITISH ROMANTICISM II: BYRON, SHELLEY, AND KEATS 3

The major works of the second-generation Romantics are studied in relation to the experience of their lives and the movements of their time. Attention is given also to their letters and critical writings.

M 1501 532 VICTORIAN STUDIES II: NOVEL 3

The Victorian novel in its historical and cultural contexts, with emphasis on the responses of the most vital art form of the age to the unprecedented changes in English life that took place during the era. Works by Thackeray, Trollope, Dickens, the Brontes, Eliot, and others.

M 1501 533 VICTORIAN STUDIES III: POETRY 3

The course concentrates on the major mid-Victorian poets, Tennyson, Browning, and Arnold, and to a lesser extent on their successors among the pre-Raphaelites, the aesthetes, and the rhymers.

M 1501 535 HARDY, JOYCE, AND LAWRENCE 3

An examination of the fiction of these three writers with special attention to the ways in which their work illuminates the transition to modern fiction, demonstrates the relation between literary consciousness and society, and illustrates the cultural phenomenon of the artist repudiated by society.

M 1501 540 THE MODERN BRITISH NOVEL 3

Innovations in characterization, narrative technique, and theme under the impact of major twentieth-century political, economic, and cultural developments. Works by Forster, Huxley, Waugh, Orwell, Greene, Amis, Murdoch, Lessing, and others.

M 1501 542 THE IRISH RENAISSANCE 3

The Irish contribution to twentieth-century literature and aesthetic theory, specifically to that brand of experimentation, individualism, and internationalism associated with the idea of the modern. Special attention to W.B. Yeats, James Joyce, J.M. Synge, Sean O'Casey, and Frank O'Connor.

M 1501 597 INDEPENDENT STUDY IN BRITISH LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

AMERICAN LITERATURE

M 1501 550 STUDIES IN EARLY AMERICAN LITERATURE 3

All major and several minor American writers of the seventeenth and eighteenth centuries are studied within several contexts: literary, religious, philosophical, and political. Topics include the development of American literature 1620-1800; the effects of puritanism and deism; the concept of the American Dream; the originality of the founding fathers; and the extent to which modern American literature and culture reflect the colonial heritage.

M 1501 552 AMERICAN POETRY TO 1912 3

The continuity of American poetry as a national body of literature, with distinctively American themes, subjects, techniques, and critical theories; the shaping influences of English and Continental writers; and the impact of American poets on their European contemporaries. Particular emphasis on Poe, Whitman, Emerson, Melville, Dickinson, Crane, and Robinson.

M 1501 555 AMERICAN ROMANTICISM 3

An exploration of the Romantic movement in America with particular emphasis on transcendentalism. Works by Emerson, Thoreau, Whitman, Irving, Cooper, and Bryant.

M 1501 556 POE, HAWTHORNE, AND MELVILLE 3

An intensive examination of the writings of the three "Dark Romantics" of the American Renaissance, set against their biographical backgrounds and the literary and historical contexts in which they worked.

M 1501 557 AMERICAN REALISM 3

The development of American realistic fiction, with emphasis on the works of Twain, Howells, and James in relation to their literary heritage and to their social milieu.

M 1501 560 MODERN AMERICAN FICTION 3

After a brief examination of late nineteenth-century realism, the major writers of the twentieth century (up to World War II) are studied with special attention to the critical attitudes of the period and to related scholarship. Authors include Dreiser, Stephen Crane, Sherwood Anderson, Hemingway and Faulkner.

M 1501 561 MODERN AMERICAN POETRY 3

Beginning with background material on late nineteenth-century poetry, the course examines selected major modern poets. The changing scene in modern poetry is noted, and the reading of contemporary poets is included. Works by Hart Crane, Hilda Doolittle, T.S. Eliot, Robert Lowell, Ezra Pound, Wallace Stevens, and others.

M 1501 563 RECENT AMERICAN FICTION 3

Fiction of approximately the last thirty years in the context of American culture and the traditions of American fiction. The course analyzes the characteristics of theme, technique, and sensibility that form the basis of a writer's response to the ambiguities of life in the contemporary world. Works by Bellow, Mailer, Roth, Oates, Updike, Didion, O'Connor, Walker, Godwin, Brautigan, Ellison, Baldwin, and others.

M 1501 564 AMERICAN DRAMA 3

The major American playwrights, such as Eugene O'Neill, Thornton Wilder, Arthur Miller, and Tennessee Williams, are placed in the perspective of their contemporaries and of traditions of the American stage.

M 1501 598 INDEPENDENT STUDY IN AMERICAN LITERATURE 3

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor is required before registration.

COMPARATIVE LITERATURE

M 1503 512 LITERARY CRITICISM TO 1800 3

Plato, Aristotle, Horace, Longinus, and their imitators and interpreters in the medieval, renaissance, and neoclassical periods are studied for those ideas about the nature and value of literature which have been influential in our culture. Considerable attention is given to relating the critical works to the history, art, and principal writings of each period.

M 1503 513 LITERARY CRITICISM FROM 1800 TO THE PRESENT 3

The break from classical theory (notably by the Romantics) and the search, principally in our own day, for new definitions of the nature and function of literature. Throughout the course, critical theory is related to the history, art, and principal writings of each period.

M 1503 535 THE ENLIGHTENMENT IN EUROPE 3

A comparative study of literature and ideas in eighteenth-century Europe, focusing on English, French, and German literature, with some attention to Italian and Spanish. Major literary and philosophical trends are analyzed, including the rational and satirical attack on traditional values and the current of "sensibility" which stressed the powers of the emotions and the senses. Works by Swift, Voltaire, Fielding, Diderot, Johnson, Rousseau, Prevost, Goethe, Lessing, and others.

M 1503 565 IBSEN, STRINDBERG, AND SHAW 3

Intensive study of three great modern playwrights with an emphasis on dramatic theory and criticism, social context, and literary/theatrical values.

M 1503 570 THE MODERN NOVEL 3

Selected works by European, English, and Latin American masters, illustrating the evolution of the novel during the twentieth century. Works by James, Proust, Kafka, Dos Passos, Woolf, Gide, Mann, Hesse, Stein, Beckett, and others.

M 1503 571 TRENDS IN THE CONTEMPORARY NOVEL 3

A study of eight to twelve novels written since 1950 in English, French, German, Spanish, and Italian. The selections will be distributed evenly among the languages. Emphasis will be upon literary trends common to the contemporary novel regardless of the language in which it is written. Representative authors include Fowles, Ellison, Cortazar, Garcia Márquez, Goytisolo, Sollers, Duras, Böll, Frisch, and Moravia.

M 1503 572 MODERN MOVEMENTS IN THE ARTS: 3
FUTURISM THROUGH SURREALISM

A comparative and interdisciplinary course in the theory and practice of modernism in literature, music, and the visual arts in Europe, the U.S., and Latin America. The specific objectives are to explore the origins, the development and the influence of four major movements in the modern arts: Futurism, Expressionism, Dada, and Surrealism.

M 1503 577 FILM STUDIES 3

On a rotating basis, different cultural, historical, and aesthetic aspects of American, British, or world film will be examined. See current announcement. Students may repeat Film Studies so long as the topic is different each time.

M 1503 599 INDEPENDENT STUDY IN COMPARATIVE 3
LITERATURE

The student completes a research project under the supervision of a member of the graduate faculty. This course is designed to allow investigations into areas not covered by regular courses and seminars. Permission of the graduate program coordinator and of the project supervisor required before registration.

ENGLISH EDUCATION

M 1501 581 TEACHING WRITING 3

In a workshop format, secondary school and college teachers of writing explore current theory and practice in the teaching of writing. Participants develop instructional materials based on sound theory.

M 1501 582 TEACHING BASIC WRITING 3

The basic writer has severe difficulties with the language, conventions, and mechanics of academic writing and is therefore usually placed in "remedial" courses in high school and college. This course explores the social, educational, and linguistic causes of these students' problems, and helps secondary school and college teachers to develop a coherent approach to basic writing instruction. In the course of the semester, the teachers also create and share practical teaching techniques.

M 1501 583 TEACHING LITERATURE 3

Current or future teachers of literature become familiar with the process of literary reading; study relevant theory, practice, and research on the teaching of literature; and develop a consistent teaching approach based on a sound understanding of the literature experience.

SEMINARS

M 1501 600 SEMINAR IN BRITISH LITERATURE 3

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the British seminar so long as the topic is different each time.

M 1501 601 SEMINAR IN AMERICAN LITERATURE 3

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the American seminar so long as the topic is different each time.

M 1503 602 SEMINAR IN COMPARATIVE LITERATURE 3

Advanced study of an author, genre, movement, theme, or critical theory. See current announcement for specific topic. Students may repeat the comparative seminar so long as the topic is different each time.

WRITING SEMINAR

M 1507 590 GRADUATE WRITING SEMINAR 3

Developing writing skills in one or more of the following: essay, business report, technical report, scholarly research, autobiography, fiction, drama, poetry.

Prerequisites: Submission of writing samples and instructor's permission.

REQUIRED COURSES

M 1501 605 SEMINAR IN LITERARY RESEARCH 3

Instruction and practical experience in such areas as reference sources, textual study, kinds of criticism, and the basics of editing. Recommended for the first or second semester of graduate study.

M 1501 606 THESIS WRITING 3

Working closely with a research advisor, the student conducts a scholarly investigation and completes an acceptable master's thesis.



ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Program Director: Dr. David K. Robertson

Graduate Advisor: Dr. W. Augustus Rentsch

The Master of Arts degree in Environmental Studies offers concentrations in Environmental Education, Environmental Health, Environmental Management, and Environmental Science. Each of the concentrations is designed for professional careers. Environmental Education serves the needs of teachers; Environmental Health serves the need of health professionals; Environmental Management serves government and business leaders; and Environmental Science serves industry. The program is administered by the Department of Environmental, Urban and Geographic Studies. The facilities of the New Jersey School of Conservation, operated by the College at Stokes State Forest, are available as an additional resource for the study of the natural environment.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation of the College will be followed in respect to this program. Students with weak undergraduate preparation for environmental studies will be required to complete prerequisite courses at the undergraduate level and/or appropriate graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN ENVIRONMENTAL STUDIES

(minimum 32-33 semester hours)

CONCENTRATION IN ENVIRONMENTAL EDUCATION

	Semester Hours
I. Required Courses	21
0824 503 Methods of Research (must be taken within first two semesters	3
4951 508 Environmental Problem Solving	3
4951 509 Environmental Change and Communication	3
0401 570 Ecology, OR	3
0843 505 Society and Natural Environment	3
4951 550 Environmental Education	3
0843 500 Curriculum Development in Environmental Education	3
(a field practicum)	3

II.	Required Research Option	6
	Option A	
	4951 697 Thesis	6
	Option B	
	0829 534 Strategies for Curriculum Change	3
	4951 695 Research Project in Environmental Studies	3
III.	Required Electives	6
	0401 430 Field Ornithology	3
	0401 431 Entomology	3
	0401 521 Field Studies of Flowering Plants	3
	0401 523 Mycology	3
	0821 540 Social Forces and Education	3
	0829 534 Strategies for Curriculum Change	3
	0837 532 Air Pollution	3
	0842 431 Individual and Group Dynamics	3
	0843 495 Workshop Utilizing Natural Environments	1
	0843 496 Field Studies in Social Studies and Natural Science	1
	0843 497 Field Studies in Social Studies and Outdoor Recreation	1
	0843 501 Outdoor Teaching Sites for Environmental Education	3
	0843 502 American Heritage Skills	3
	0843 503 Humanities and the Environment	3
	0843 504 Field Techniques for Teaching the Humanities	3
	0843 554 Practicum in Environmental Education	3
	2202 534 Anthropology and Education	3
	0990 497 Historical Restoration	1-9
	2206 509 Water Resource Management	3
	4951 409 Legal Aspects of Environmental Law	3
	4951 531 Independent Study in Environmental Studies	1-4
	4951 551 Natural Resource Management	3
	2208 565 Sociology of Youth	3
IV.	Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL HEALTH

I.	Required courses	18
	0401 570 Ecology	3
	0837 502 Determinants of Environmental Health	3
	4951 508 Environmental Problem Solving	3
	4951 509 Environmental Change and Communication	3
	0837 603 Research Project in Health	3
II.	Required electives	12
	A minimum of 6 semester hours from elective areas A and B each	
	A. Health Services Area	
	0836 501 Selected Developments in Safety	3
	0837 500 Health Aspects of Family Living	3
	0837 516 Selected Developments in Community Health	3

0837	528	Evaluation in Health	3
0837	530	Seminar in Basic Issues in Health	3
0837	531	Independent Study in Health	3
0837	535	History and Foundations of Health I	3
0837	536	History and Foundations of Health II	3
B. Life Sciences Area			
0837	531	Independent Study in Health	3
0837	532	Air Pollution	3
0401	515	Radiation Biology	4
0401	531	Medical Parasitology	3
0401	540	Comparative Human Anatomy	4
0401	543	Comparative Immunology	3
0401	553	Microbial Ecology	4
1220	539	Environmental Noise	3
2206	509	Water Resource Management	3
III. Electives			3
IV. Comprehensive Examination			

CONCENTRATION IN ENVIRONMENTAL MANAGEMENT

I. Required Courses			15
0401	570	Ecology	3
4951	508	Environmental Problem Solving	3
4951	509	Environmental Change and Communication	3
2206	521	Research Methods and Techniques	3
4951	610	Seminar: Environmental Management	3
II. Required Electives			12
A minimum of 6 semester hours from elective areas A and B each			
A. Scientific Data and Concepts Area			
0837	502	Determinants of Environmental Health	3
1220	539	Environmental Noise	3
1905	411	Water Analysis and Purification	3
1914	525	Environmental Geoscience	3
1914	558	Coastal Geomorphology	3
2001	556	Environmental Psychology	3
2202	411	Archeological Field Methods	3
4951	531	Independent Study in Environmental Studies	1-4
B. Policy-making, Analysis and Management Area			
2001	553	Urban Psychology	3
2204	501	Economic Analysis	3
2204	508	Economics of Public Management	3
2204	510	Urban Economics	3
2206	501	Air Resource Management	3
2206	505	Human Environment	3
2206	509	Water Resource Management	3
2206	510	Urban Systems and Planning	3
2206	511	Urban and Regional Planning	3
2206	550	Urban Studies and Policy Analysis	3
2206	551	The Metropolitan Economy	3
2207	501	Public Administration and Public Policy	3

2208	564	Social Planning	3
4951	409	Legal Aspects of Environmental Law	3
4951	531	Independent Study in Environmental Studies	1-4
4951	537	Natural Resource Management	3
III.		Electives	6
IV.		Comprehensive Examination	

CONCENTRATION IN ENVIRONMENTAL SCIENCE

I.		Required courses	15
	0401	570 Ecology	3
	0837	502 Determinants of Environmental Health	3
	1914	525 Environmental Geoscience	3
	1914	575 Geochemistry	3
	1914	628 Seminar: Environmental Graphics	3
II.		Required Electives	12
		A minimum of 6 semester hours from elective areas A and B each	
		A. Bio-ecology Area	
	0401	430 Field Ornithology	3
	0401	467 Marine Biology of the Fishes	4
	0401	521 Field Studies of Flowering Plants	4
	0401	522 Plant Pathology	3
	0401	531 Medical Parasitology	3
	0401	532 Insect Ecology and Behavior	3
	0401	543 Comparative Immunology	3
	0401	550 Topics in Microbiology	4
	0401	553 Microbial Ecology	4
	0401	571 Physiological Plant Ecology	4
	0401	572 Ecology of the Estuary	4
	0401	573 Benthic Ecology	4
	0499	505 Bacteriological Techniques in Marine Sampling	2
	1999	565 Tidal Marsh Ecology	4
		B. Physical Environment Area	
	0837	532 Air Pollution	3
	1220	539 Environmental Noise	3
	1905	411 Water Analysis and Purification	3
	1905	570 Advanced Biochemistry	3
	1914	530 Paleocology	3
	1914	537 Biostratigraphy of New Jersey	3
	1914	558 Coastal Geomorphology	4
	1914	560 Advanced Marine Geology	3
	1914	571 Geophysics	3
	1914	573 Nuclear Geophysics	3
	2206	509 Water Resources	3
III.		Comprehensive Examination	

Note:

1. Electives for all these concentrations may be added by the college. The advisor should be contacted before any are selected by the student.

2. It is the student's responsibility to file for the comprehensive examination with the departmental advisor. At that time, information will be given concerning the nature and scope of the examination.

ENVIRONMENTAL, URBAN AND GEOGRAPHIC STUDIES

Course Descriptions

Semester Hours

- N 2206 501 AIR RESOURCE MANAGEMENT 3**
Spatial distribution of energy in the atmosphere treated in terms of natural factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.
- N 2206 503 CULTURE REGIONS 3**
Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space as well as the diffusion process.
- N 2206 504 PRO-SEMINAR 3**
Research on selected problems which will vary according to instructor.
- N 2206 505 HUMAN ENVIRONMENT 3**
Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.
- N 2206 509 WATER RESOURCE MANAGEMENT 3**
The spatial patterns of the water resource both as surface water and ground water. Processes affecting availability and techniques of estimation are stressed.
Prerequisite: N 4951 501.
- N 2206 510 URBAN SYSTEMS ANALYSIS 3**
The complexity of the city and its modification by means of planning the systems approach to urban study the ecological base, different models of urban systems, the impact of technological change, the hierarchy of urban regions; planning in the existing systems and creating new ones.
- N 2206 511 URBAN AND REGIONAL PLANNING 3**
Urban and regional planning analyzes planning goals at an integral level. Urban and regional planning are rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.

N 2206 512 TRANSPORTATION ANALYSIS AND PLANNING 3

Transportation analysis addresses such diverse subject matter as technological change in the transportation media, transportation and energy, degree of accessibility, passenger trip generation by kind, commodity flows, transportation and spatial order, and transportation planning as part of urban and regional planning.

N 2206 521 RESEARCH METHODS 3

Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research, both cultural and physical; mapping techniques; the design of appropriate scale and data transformation to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE: HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective the interaction of different social, cultural economic, political and planning forces examined for their impact upon the resulting system.

N 2206 603 READING SEMINAR IN GEOGRAPHY AND URBAN STUDIES 3

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3

The seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

N 4951 501 ENVIRONMENTAL STUDIES PHYSICAL 3

A systems concept utilizing physical science. Provides some understanding of the abiotic environment to life. The atmosphere, hydrosphere, and lithosphere are examined as natural, man-modified, and human environments.

N 4951 502 ENVIRONMENTAL STUDIES-SOCIAL/ BEHAVIORAL 3

A system concept utilizing social and behavioral sciences. Provides some understanding of the relationships of the cultural environment to life. The social and behavioral conditions upon the grouping of individuals are examined in natural and man-modified environments.

N 4951 508 ENVIRONMENTAL PROBLEM SOLVING 3

The purpose of this course is to train students to define environmental problems, develop their skills in solving these problems, as well as commitment to work toward their solution. Each lesson consists of student preparation of reading selected articles, classroom orientation, field trips, and the student-instructor followup. Field trip topics include pedestrian/vehicle conflict, school site development, plants as a city resource, urban/rural recreation, sign ordinances, transportation and similar topics.

N 4951 509 ENVIRONMENTAL CHANGE AND COMMUNICATION 3

Prepare students as professional environmentalists: communication and journalism strategies, theory of persuasion, and roles as catalyst, solution giver, process helpers, and resource person.

N 4951 531 INDEPENDENT STUDY IN ENVIRONMENTAL STUDIES 1-4

Student must develop statement of goals and phasing for completion, prior to consultation with instructor.

N 4951 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 4951 550 ENVIRONMENTAL EDUCATION 3

Foundations of environmental education-historical, theoretical, and conceptual. Includes models, gaming encounters, and teaching strategies.

N 4951 551 NATURAL RESOURCE MANAGEMENT 3

Provide background in natural resource management; wildlife, fisheries, forests, water and related components of spaceship earth. Includes field trips.

N 4951 610 SEMINAR IN ENVIRONMENTAL MANAGEMENT 3

This is a methods seminar focusing on the techniques of managing a project with environmental significance. Students will design and plan in detail a project to improve an existing environmental problem or to implement an economically important project that would minimize environmental problems.

Prerequisites: N 4951 501, 502 or instructor's permission.

N 4951 628 SEMINAR IN ENVIRONMENTAL GRAPHICS 3

Use of geographic materials suitable for analysis, understanding and presenting aspects of the environment through seminar presentation.

Prerequisite: At least 12 semester hours of graduate credit in environmental science, or with instructor's permission.

N 4951 695 RESEARCH PROJECT IN ENVIRONMENTAL STUDIES 3

To complete the research proposal initiated in the research methods course.
Prerequisites: N 2206 521 or N 4951 503 or 4 0824 503, instructor's permission.

N 4951 697 THESIS 6

Preparation and defense of a thesis in environmental studies.
Prerequisite: Approval of the department chairman, the graduate advisor, and the faculty thesis advisor.

FINE ARTS

Chairperson: Dr. Wendy Oxman-Michelli

Graduate Advisor: Prof. Patricia Lay

The graduate program in Fine Arts allows for a concentration in Studio, Fine Arts, Education, or studies in the Visual Arts. Areas of specialization in Studio are: painting, sculpture, photography, cinematography, drawing, ceramics, printmaking, fiber arts and jewelry. Students interested in Art Therapy may elect studies in the Visual Arts as a concentration.

ADMISSION REQUIREMENTS

The requirements established for all graduate studies and for matriculation at the college will be followed in respect to this program.

Eligibility for matriculation for a concentration in Studio or Fine Arts Education requires either an undergraduate degree in fine arts or the equivalent as determined by the art department. A strong background in both art history and studio work is expected. A portfolio of representative art work will be required as evidence of the applicant's ability. Advice concerning all requirements, including art history requirements, dates for portfolio reviews, and suggested portfolio contents may be obtained from the department's graduate advisor. Students interested in a concentration in studies in the Visual Arts should consult the graduate advisor for the admissions requirements.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FINE ARTS

	Semester Hours
I. Required courses for all Fine Arts MA candidates.	
Graduate Art History	6
Graduate Project or Thesis	6
<i>Either</i>	
A. Graduate Project	
1001 695 Seminar in Art I:	3
Contemporary Art and Aesthetics	
1001 696 Seminar in Art II:	3
Contemporary Art and Aesthetics	
<i>Or</i>	
B. Master's Thesis	
1001 697 Master's Thesis I	3
1001 698 Master's Thesis II	3
II. Art Electives	15
To be selected with approval of the Graduate Advisor.	
III. Free Electives	6
IV. Final Oral Examination in relation to Graduate Project or Master's Thesis.	
In addition to the successful completion of all required course work all candidates are required to make a final presentation of either a body of visual work from their area of concentration, and a related project paper, or a Master's Thesis. Advice concerning this requirement may be obtained from the department's graduate advisor.	
Minimum	33

FINE ARTS

Course Descriptions	Semester Hours
G 0831 501 CONTEMPORARY VIEWPOINTS IN ART EDUCATION	3
A study of art literature which influences art educators in their teaching. Readings will be in papers and books selected from philosophy, sociology, psychology and aesthetics which deal primarily with various classifications within the discipline. The practical implementation with the educational setting, will be analytically discussed.	
G 0831 502 ADVANCED CURRICULUM CONSTRUCTION IN ART EDUCATION	3
For students with interest in curriculum construction or revision, both in the elementary and secondary programs. Evaluation of curricular materials in use in New Jersey and throughout the country in terms of principles of curriculum construction.	

G 0831 505 SUPERVISION AND EVALUATION IN ART EDUCATION 3

Supervisory methods and techniques for the experienced art teacher. Current and analogous supervisory data will be included. Will be based on state criteria and ways of evaluating from creative viewpoints.

G 1001 515, 516 GRADUATE LIFE DRAWING I, II 3 each

Advanced problems in drawing based upon a study of the human figure. Taken serially.

G 0831 601, 602 GRADUATE LIFE DRAWING III, IV 3 each

Continuation of G 1001 516. Taken serially.

G 1001 601, 611 INDEPENDENT STUDY I, II 1.0-8.0 each

Under this course designation advanced students may either expand or extend their experience in a chosen field or medium. Direction, conduct and evaluation of the work are developed in consultation with the instructor. As a basis for admission and planning, each student will present a representative selection of his/her prior work in the chosen media. Credits to be arranged. May be repeated for credit.

Prerequisite: Permission of the department.

G 1001 695 SEMINAR IN ART I: CONTEMPORARY ART AND AESTHETICS (WITH GRADUATE PROJECT) 3

This course involves the graduate student in a consideration of major issues in contemporary aesthetics as a means for developing the ability to be on the subject of contemporary art.

G 1001 696 SEMINAR IN ART II: CONTEMPORARY ART AND AESTHETICS (WITH GRADUATE PROJECT) 3

A continuation of G 1001 695. Should be taken in the students last semester along with the completion of the Graduate Project.

G 1001 697 MASTER'S THESIS I 3

Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.

Prerequisite: Written permission of the graduate advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors throughout the thesis.

G 1001 698 MASTER'S THESIS II 3

Individual research selected under advisement of a faculty committee. Students are advised to initiate their master thesis after completing at least two courses on the graduate level in the area of the thesis topic and no more than 12 to 16 credits in their general program.

Prerequisite: Written permission of the graduate advisor on the proper form, with written agreement of a faculty member who will serve as the student's personal advisors, throughout the thesis.

G 1002 511, 512 GRADUATE PAINTING I, II 3 each

Studio in painting to further the creative expression and technical knowledge of the student in various painting media personal and professional development through studio work, trips and the study of the contemporary artists. Taken serially.

Prerequisite: Permission of the department.

G 1002 515 GRADUATE VISUAL ARTS WORKSHOP 1

Selected studio topics which represent current concerns within the contemporary world of the visual arts.

G 1002 521, 522 GRADUATE SCULPTURE I, II 3 each

The student explores independently one or two materials and techniques, and begins to find directions as a sculptor. Taken serially.

G 1002 560, 561 GRAPHIC DESIGN I, II 3 each

Techniques and principles of design of printed matter and displays, elements of layout, illustration, typography, printing process, and preparation of copy for the printer. Taken serially.

Prerequisite: Permission of the department.

G 1002 605, 606 GRADUATE PAINTING III, IV 3 each

Continuation of G 1002 512. Taken serially.

G 1002 607, 608 GRADUATE PAINTING V, VI 3 each

Advanced study in painting; individual projects in various media. Readings in contemporary art, visits to museums and galleries. Taken serially.

Prerequisites: Permission of the department.

G 1002 613, 614 GRADUATE SCULPTURE III, IV 3 each

Continuation of G 1002 522. Taken serially.

G 1003 590 MODERN PHILOSOPHIES OF ART I 3

Major writers in art in the nineteenth and twentieth centuries. The nature of the creative experience; art in the life of the individual and of society; the creative process; new materials; institutions and sentiments affecting current thinking in the field. Discussions based on readings of philosophers, poets, social scientists and psychologists.

G 1003 591 MODERN PHILOSOPHIES OF ART II 3

The writings of 19th and 20th century artists and their interpreters; such works as the "Futurist's Manifesto" and Kandinsky's "The Spiritual in Art."

G 1003 592, 593 SELECTED PROBLEMS ART HISTORY I, II 3 each

Art problems, iconographic topics and themes of a historic, social and philosophical nature. Topic selection will depend upon the special areas of the professor or guest professor invited for the semester. Taken serially.

Prerequisite: Permission of the department.

G 1010 505 FILM AS A VISUAL ART 3

An understanding of the development of the motion picture as an art form. Viewing, analysis, reading, and/or actual participation in the production of film images.

Prerequisite: Permission of the department.

G 1010 580, 581, 615, 616 GRADUATE 3 each

CINEMATOGRAPHY I, II, III, IV

Techniques, materials and theories of motion picture production for visually experienced students. Taken serially.

G 1011 570 GRADUATE INTRODUCTORY PHOTOGRAPHY: 3
A CONTEMPORARY ART FORM

Provides for the in-depth study and practice of photography as a visual language. Encourages exploration beyond the camera through studio work, discussions, criticism, films, trips and demonstrations.

Prerequisites: 10 semester hours in art. Permission of the department.

G 1011 571 GRADUATE INTERMEDIATE PHOTOGRAPHY: 3
A CONTEMPORARY ART FORM

Workshop, discussion, lectures, criticism, demonstrations: photography for self expression and greater visual awareness. Creative controls craftsmanship, perception, presentation and the fine points will be investigated.

Prerequisite: G 1011 570.

G 1011 609 GRADUATE ADVANCED PHOTOGRAPHY: 4
A CONTEMPORARY ART FORM

Workshop, discussion, lecture, demonstrations, criticism. Photography as an intensive learning experience. Light sensitive materials, controls, photographic approach, selection, zinc system and view camera will be investigated.

Prerequisite: G 1011 571.

G 1011 617 GRADUATE SPECIAL PROCESSES 4
IN PHOTOGRAPHY

Investigation of non-traditional light sensitive materials for use in the photographic image making process. Extending traditional boundaries of photography through new tools that permit greater image manipulation: gum bichromate, cyanotype, platinum, photo etching, and others will be investigated.

Prerequisite: G 1011 609.

G 1090 525, 526 GRADUATE METALWORK 3 each
AND JEWELRY I, II

Designing jewelry and small sculpture in varied metals; the techniques of flat sheet metal and casting.

Prerequisites: Graduate prerequisites and permission of department.

G 1090 531, 532 GRADUATE CERAMICS: POTTERY 3 each
AND SCULPTURE I, II

Experimentation with the potter's wheel; handbuilding methods of forming; further experimentation with clay compositions, glazes and methods of firing. Advanced students will be responsible for developing craftsmanship and a personal idiom.

Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor.

G 1090 541, 542 GRADUATE FORM IN FIBER I, II 3 each

Designing with simple and four harness floor looms, in a variety of techniques and materials. Taken serially.

Prerequisites: 10 semester hours in art. Permission of the department.

G 1090 543, 544 GRADUATE DECORATION OF FABRICS I, II 3 each

Survey course in all aspects of fabric embellishment; tie-dye, batik, blockprint, tritik discharge, silkscreen printing, 3M Matrix, etc. Taken serially.

Prerequisites: Permission of the department.

G 1090 618 GRADUATE METALWORK AND JEWELRY III 3

Continuation of G 1090 526. Taken serially.

Prerequisites: Permission of the department.

G 1090 619 GRADUATE METALWORK AND JEWELRY IV 3

Designing jewelry and small sculpture in varied metals. The techniques of flat sheet metal and casting. Continuation of G 1090 618. Taken serially.

Prerequisite: Permission of the department.

G 1090 622, 623 GRADUATE CERAMICS POTTERY AND SCULPTURE III, IV 3 each

Continuation of G 1090 532. Taken serially.

Prerequisites: Undergraduate experience in ceramics, portfolio, and approval of instructor.

G 1090 624, 625 GRADUATE FORM IN FIBER III, IV 3 each

Continuation of G 1090 542. Taken serially.

Prerequisite: Permission of the department.

G 1090 626, 627 GRADUATE FORM IN FIBER V, VI 3 each

Continued experimentation with on-loom and off-loom weaving techniques synthetic and vegetable dyes. Taken serially.

Prerequisite: Permission of the department.

G 1090 630, 631 GRADUATE DECORATION OF FABRIC III, IV 3 each

Continuation of G 1090 544. Taken serially.

Prerequisite: Permission of the department.

G 1095 505 GRADUATE INTRODUCTION TO ART THERAPY 3

Introduction to the historical and theoretical bases of art therapy as a profession. Exploration of the literature of art therapy and of current trends in the field.

G 1095 506 STUDIO TECHNIQUES IN ART THERAPY 3

The development of a repertoire of art therapy skills in various media to facilitate meeting the expressive needs in art therapy settings. May be repeated for credit.

Prerequisite: Instructor's permission.

G 1095 507 ART THERAPY PRACTICUM I 3

Integration of field and academic experiences. Each student will work with a selected client in an appropriate professional setting (300 hours), and prepare a weekly case presentation for class discussion and critique as well as a written case study.

G 1095 508 ART THERAPY PRACTICUM II

3

Continuation of Art Therapy Practicum I (G 1095 507). Each student will work with a selected client in an appropriate professional setting other than that in which student worked in Art Therapy Practicum I (300 hours). Treatment design and case presentations will be submitted for weekly discussion and critique.

G 4921 552, 553, 628, 629 GRADUATE PRINTMAKING

3 each

I, II, III, IV

Advanced work in various print processes, emphasis on the development of images and concepts as they relate to the printmaking medial. Taken serially.

FRENCH

Chairperson: Professor Madeleine Sergent

Graduate Advisor: Dr. Kay Wilkins

The graduate program in French is designed to prepare students for both teaching and research in language and literature.

A Master of Arts degree opens opportunities to teach in both community colleges and high schools, and provides a solid foundation for students interested in continuing their studies toward a Doctor of Philosophy degree. Graduate training in French is also increasingly useful for positions in government and industries concerned with French-speaking areas of the world.

ADMISSION REQUIREMENTS

Admission is open to students who hold a bachelor's degree and have completed at least 24 semester hours of undergraduate French or its equivalent. Students applying for admission are required to present their Graduate Record Examination scores for the Advanced Test in French in addition to the standard College requirements for admission to graduate study.

After acceptance, the candidates will consult the graduate advisor to plan their programs. The course program must be approved by the graduate advisor each semester before registration. Courses will be offered on a rotating basis to allow diversity of offerings. Please consult department chairperson for details.

Individuals holding the bachelor's degree and showing an adequate proficiency in French may enroll in graduate courses, even though they do not wish to enter the Master of Arts program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN FRENCH

		Semester Hours
I.	Required Courses	6
	1102 508 Explication de Texte and Stylistic Analysis	3
	1102 603 Research Seminar	3
	(Waived if student elects to write a thesis)	
	One course in the literature of <i>each</i> century to be selected from the following French electives:	
II.	French Electives	
	1102 505 History of the French Language	3
	1102 506 Advanced French Phonetics	3
	1102 509 Advanced Stylistics	3
	1102 511 Medieval French Literature	3
	1102 513 Medieval French Theater	3
	1102 516 French Humanism in the Sixteenth Century	3
	1102 517 Poetry of the Renaissance	3
	1102 525 Moralists of the Seventeenth Century	3
	1102 526 Corneille, Racine and Moliere	3
	1102 527 Selected Topics in Seventeenth Century French Literature	3
	1102 530 Philosophy and Politics in Eighteenth Century France	3
	1120 531 The Development of the Novel in Eighteenth Century France	3
	1102 532 Eighteenth Century Seminar	3
	1102 538 French Novel of the Nineteenth Century I	3
	1102 539 French Novel of the Nineteenth Century II	3
	1102 540 Nineteenth Century French Poetry	3
	1102 542 Twentieth Century French Theater	3
	1102 543 Twentieth Century French Poets	3
	1102 544 Twentieth Century French Novel I	3
	1102 545 Twentieth Century French Novel II	3
	1102 546 Twentieth Century Seminar	3
	1102 547 Francophone Literature	3
	1102 548 Contemporary French Civilization: Selected topics	3
III.	Free Electives	6
IV.	Thesis (Optional)	4
V.	Comprehensive Examination: One session	

All candidates for the master's degree must pass a comprehensive examination designed to test critical ability and familiarity with major works of French literature. Before registering for the comprehensive examination students must have completed all their course work (with the exception of the 603 Research Seminar) and have satisfied the requirement of having taken I course on the literature of each century.

The examination is based on a reading list and course content.

Minimum: 33 semester hours

FRENCH

Course Descriptions

Semester Hours

- | | | | | |
|---|-------------|------------|--|----------|
| O | 1102 | 505 | HISTORY OF THE FRENCH LANGUAGE | 3 |
| Structures of modern French as outcome of linguistic and cultural processes over 2,000 years. | | | | |
| O | 1102 | 506 | ADVANCED FRENCH PHONETICS | 3 |
| Principles of general and experimental phonetics. Previous knowledge of phonetics desirable. | | | | |
| O | 1102 | 507 | PRACTICUM IN TRANSLATION | 3 |
| Basic principles and theory of translation with emphasis on research techniques. | | | | |
| Prerequisite: Adequate competency in the language for the purpose of translation training. | | | | |
| O | 1102 | 508 | EXPLICATION DE TEXTE
AND STYLISTIC ANALYSIS | 3 |
| Techniques of "explication de texte and stylistic analysis" as an instrument for development of critical reading ability, and as pedagogical tool for teaching literature as well as language through literature. | | | | |
| O | 1102 | 509 | ADVANCED STYLISTICS | 3 |
| Fundamental notions of structuralism as applied to contemporary literary criticism. | | | | |
| O | 1102 | 511 | MEDIEVAL FRENCH LITERATURE | 3 |
| French literature from ninth through fifteenth centuries emphasizing the "Chanson De Geste" and the "Roman Courtois." | | | | |
| O | 1102 | 513 | MEDIEVAL FRENCH THEATRE | 3 |
| Origins and development of theatre in France during the middle ages. | | | | |
| O | 1102 | 516 | FRENCH HUMANISM IN 16TH CENTURY | 3 |
| Humanistic ideals as reflected in the works of Rabelais, Montaigne and other authors. | | | | |
| O | 1102 | 517 | POETRY OF THE RENAISSANCE | 3 |
| Major works of Marot, Ronsard, Du Bellay, and other poets of the Pleiade. | | | | |
| O | 1102 | 525 | MORALISTS OF THE 17TH CENTURY | 3 |
| Representative works of Descartes, Pascal, La Rochefoucauld, Saint Simon, La Bruyere, and other authors. | | | | |
| O | 1102 | 526 | CORNEILLE, RACINE AND MOLIÈRE | 3 |
| Dramatic art as reflected in representative plays of the three authors. | | | | |
| O | 1102 | 527 | SELECTED TOPICS IN 17TH CENTURY FRENCH
LITERATURE | 3 |
| Changing topics to include in-depth studies of individual authors. | | | | |

- O 1102 530 PHILOSOPHY AND POLITICS IN 18TH CENTURY FRANCE 3**
Impact of the "Philosophes" on religious, political and sociological thought.
- O 1102 531 THE DEVELOPMENT OF THE NOVEL IN 18TH CENTURY FRANCE 3**
Study of the social and historical context of a novel and its particular form (e.g. epistolary, episodic, etc.)
- O 1102 532 18TH CENTURY SEMINAR 3**
Changing topics to include in-depth studies of individual authors and genre topics.
- O 1102 538 FRENCH NOVEL OF 19TH CENTURY I 3**
Insight into major works of Balzac and Stendhal.
- O 1102 539 FRENCH NOVEL OF THE 19TH CENTURY II 3**
Insight into major works of Flaubert and Zola.
- O 1102 540 19TH CENTURY FRENCH POETRY 3**
Development of French poetry from Romanticism to Symbolism.
- O 1102 542 20TH CENTURY FRENCH THEATRE 3**
Major modern currents and trends in drama.
- O 1102 543 20TH CENTURY FRENCH POETS 3**
Within a general developmental context, emphasis upon thematics and structural analysis of work of Apollinaire, Reverdy, Char, Eluard and Bonnefoy.
- O 1102 544 20TH CENTURY FRENCH NOVEL I 3**
Evolution of the French novel from Proust to the "New Novel".
- O 1102 545 20TH CENTURY FRENCH NOVEL II 3**
From the "New Novel" of the 50's to contemporary French writing.
- O 1102 546 20TH CENTURY SEMINAR 3**
Changing topics on twentieth century French literature.
- O 1102 547 FRANCOPHONE LITERATURE 3**
Major Francophone writings outside continental France.
- O 1102 548 CONTEMPORARY FRENCH CIVILIZATION-SELECTED TOPICS 3**
Study of institutions and culture of contemporary France.
- O 1102 603 RESEARCH SEMINAR 3**
Opportunity to apply research techniques on a specific topic of the student's choice.

GEOSCIENCE

Chairperson: Professor Richard Hodson

Graduate Advisor: Dr. Charles L. Hamilton

The graduate programs in Geoscience are designed to enable the student to pursue further study in the various areas of the Department for professional or personal reasons, to further his preparation for the teaching profession, or for a career requiring advanced training.

For the arts and science student, a graduate program is designed to give opportunity for in-depth study in the broad field of Geoscience (geology). The program provides sufficient flexibility through electives so that emphasis in (1) metamorphic and igneous geology, (2) stratigraphy, paleobiology and sedimentology, or (3) oceanography and marine geology is possible. Some of the above courses will be taken at the various sites of the New Jersey Marine Sciences Consortium.

ADMISSION REQUIREMENTS

Prior to matriculation the student should have completed a subject matter background of at least twenty-four semester hours in the area of specialization, as well as sufficient background in related sciences and basic mathematics. In cases of a weak undergraduate background, prerequisite courses, not for graduate credit, may be assigned.

Candidates must fulfill the other criteria for graduate matriculation as listed in this bulletin (Admission to Graduate Study). Each candidate's background and credentials must be approved by the graduate advisor for the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN GEOSCIENCE

Thirty-two semester hours are required, of which up to eight may be at the 400 level. Additional 400 level courses will not be given credit without written approval of the department graduate advisor. Additional hours may be required to compensate for any deficiencies in the applicant's undergraduate record.

Degree candidates employed in the field of education may use six semester hours of free electives for graduate courses in the area of professional education.

			Semester Hours
I.	Required Courses (one from each group)		9-12
A.	1914 537 Biostratigraphy of New Jersey		4
	1914 533 Advanced Invertebrate Paleobiology		4
	1914 530 Paleocology		3
B.	1914 503 Advanced Physical Geology		4
	1914 504 Advanced Historical Geology		3
	1914 571 Geophysics		3
C.	1914 543 Advanced Mineralogy		3
	1914 546 Petrography		4
	1914 545 Optical Mineralogy		4
II.	Geoscience Electives		10-13
III.	Research		
	1914 695 Thesis		4
IV.	Free Electives		6
V.	Comprehensive Examination		

Minimum: 32 semester hours

GEOSCIENCE

	Course Descriptions	Semester Hours
Z 1914 503	ADVANCED PHYSICAL GEOLOGY	4
	In-depth study of the major problems of physical geology processes of erosion, rock formation, continent and ocean-basin origin and relationships, earthquakes, interior of the earth, volcanism, island arcs, mountain building, paleomagnetism, continental drift, and sea-floor spreading. Field trips. (3 hours lecture; 2 hours lab)	
	Prerequisites: A course in physical geology plus 8 hours of additional geoscience at 400 level.	
Z 1914 504	ADVANCED HISTORICAL GEOLOGY	3
	In-depth analysis of major problems in geologic history, stratigraphy and paleoenvironments as interpreted through lithologic and paleontologic evidence. Required field trips. (2 hours lecture; 2 hours lab)	
	Prerequisite: A course in stratigraphy.	
Z 1914 525	ENVIRONMENTAL GEOSCIENCE	3
	In-depth study of the relationships between man and the physical environment of atmosphere, hydrosphere and lithosphere. Particular attention to problems of mineral resource and fossil-fuel depletion; pollution of air, water and soils and waste disposal and recycling, simple computer modeling of environmental situations. (3 hours lecture)	
	Prerequisite: Graduate standing in either the Environmental Studies-Physical or Geoscience Program, or instructor's permission.	
Z 1914 530	PALEOECOLOGY	3
	Distribution and association of fossils as interpreted from the evidence presented in the geologic record. Detailed paleoecological field study made of selected faunal assemblages. (2 hours lecture; 2 hours lab)	
	Prerequisite: Course in invertebrate paleobiology.	

- Z 1914 532 MICROPALAEOBIOLOGY 4**
Taxonomic, morphologic, paleoecologic and stratigraphic consideration of microfossils with special emphasis on those from the marine environment. (3 hours lecture; 2 hours lab)
Prerequisites: Z 1914 431 or W 0401 130 or instructor's permission.
- Z 1914 535 VERTEBRATE PALEOBIOLOGY 3**
The geologic history, morphology, taxonomy, paleogeography and evolution of fossil vertebrates. Required field trips. (2 hours lecture; 2 hours lab)
Prerequisite: Z 1914 114 and W 0401 131 or instructor's permission.
- Z 1914 537 BIOSTRATIGRAPHY OF NEW JERSEY 3**
The geologic history, paleontology, stratigraphy and paleogeography of New Jersey. Required field trips. (2 hours lecture; 2 hours lab)
Prerequisite: Z 1914 539 or instructor's permission.
- Z 1914 543 ADVANCED MINERALOGY 3**
Chemical and physical principles as applied to minerals. Detailed study of representative minerals from the various families. Advanced techniques will be performed by the student. Field trips (2 hours lecture; 2 hours lab)
Prerequisites: Course in mineralogy.
- Z 1914 545 OPTICAL MINERALOGY 4**
Theory and practice of using the polarizing microscope to study and identify minerals; theory of light transmission in minerals; the practical effect. Required field trips. (3 hours lecture; 2 hours lab)
Prerequisites: Course in mineralogy.
- Z 1914 546 PETROGRAPHY 4**
Rock textures, structures and mineralogy using the polarizing microscope. Identification and classification of rocks and the origin and history of the rock as determined by microscopic study of thin sections. Required field trips. (3 hours lecture; 2 hours lab)
Prerequisites: Courses in petrology and optical mineralogy.
- Z 1914 571 GEOPHYSICS 3**
Theory and application of conventional geophysical methods; seismology, magnetism, electricity and gravity. Laboratory includes the collection and interpretation of geophysical data. Field trips. (3 hours lecture)
Prerequisites: Courses in physical geology and College Physics II and Calculus A.
- Z 1914 575 GEOCHEMISTRY 3**
Chemical laws and principles applied to the earth, chemical composition of the earth, distribution and relative abundance of the elements. Radioactive materials, atmospheric precipitation of geochemicals, the geochemistry of polluted water (including solid and liquid wastes) study of meteorites. Required field trips. (3 hours lecture)
Prerequisites: General chemistry, petrology.
- Z 1914 578 IGNEOUS & METAMORPHIC GEOLOGY 4**
The interpretive study of igneous and metamorphic rocks in detail with the aim of properly identifying and naming the rocks and interpreting their history: rock suites from classical areas. Required field trips. (3 hours lecture; 2 hours lab)
Prerequisites: Courses in petrology and optical mineralogy.

Z 1914 592 SPECIAL PROBLEMS IN GEOSCIENCE 1-4

Independent research project to be performed by the student under faculty guidance.

Prerequisite: Matriculation for the M.A. degree in Geoscience or permission of Geoscience faculty.

Z 1914 658 SEMINAR IN ENVIRONMENTAL GRAPHICS 3

The use of graphic materials suitable for analyzing, understanding and presenting aspects of the environment through seminar presentation. The preparation of illustrative materials, especially suitable for inclusion in environmental impact statements as well as for public presentation, will be developed by each student as a culminating research project.

Prerequisites: At least 12 hours of graduate credit in environmental science or with instructor's permission.

Z 1914 695 THESIS 4

In-depth field, laboratory and library investigation of a problem in the area of the student's interest in geoscience; results will be presented in oral and written form culminating in a written thesis.

Prerequisite: Matriculation for the M.A. degree in geoscience.

Offered at the New Jersey Marine Sciences Consortium.

Z 1999 598 SPECIAL PROBLEMS IN THE MARINE SCIENCES 1-4

An opportunity for the qualified graduate student to do research in a field of marine science selected under the guidance of a professor. Open only to graduate students who have indicated a potential for original thinking. Also offered at the site of the N.J. Marine Sciences Consortium.

Prerequisites: Graduate standing in natural or social science and permission of the departmental graduate advisor.

HEALTH PROFESSIONS

Chairperson and Graduate Advisor: Dr. Harry H. Hoitsma

The Department of Health Professions prepares professionals for careers in health education and various selected areas of the health professions. The graduate program leads to a Master of Arts degree in health education. Advanced study is provided to candidates engaged in, or seeking, positions in the broad and expanding spectrum of the health professions in the school, community, business and industrial sectors, the media and various other segments of the health care delivery system.

The curriculum provides a foundation of required coursework which is complemented by a wide array of health professions electives, interdisciplinary coursework and varied educational experiences afforded by diverse instructional approaches. Advancements in the scientific realm combined with practical applications address our contemporary health problems. There is a definite research focus within the program. Students are provided with the option of either conducting a study on a pertinent health topic—(in the form of a thesis or research project)—or completing a broader-based research seminar. Special student interests, academic objectives and professional goals can be accommodated on an individualized basis. Students must complete a minimum of 32 semester hours and pass a written comprehensive examination.

POSSIBLE AREAS OF EMPHASIS FOR DEPARTMENTAL ELECTIVES

Candidates may select departmental electives within the Master of Arts program in health education from among the following areas:

- Human Sexuality
- Health Program Administration
- Health Behavior and Wellness
- Gerontology
- School Health
- Environmental and Public Health (prepares candidates for NJ State Health Officer's Examination)
- Alcoholism Counseling Certification (offered in conjunction with the Department of Counseling, Human Services and Guidance)

ADMISSION REQUIREMENTS

All candidates must meet the basic admission requirements for graduate study at Montclair State College. The completion of a major in health education from an accredited college or university is preferred. Candidates with degrees in closely related areas will be considered, although prematriculation coursework may be required. Applicants with a minor or less preparation in health education must complete designated coursework prior to matriculation. Students with a major in health education may also be required to undertake additional coursework where academic deficiencies are apparent.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HEALTH EDUCATION

	Semester Hours
I. Required Course	15
0837 503 Research Methods in Health	3
0837 528 Evaluation in Health	3
0837 526 Curriculum Development in Health	3
0837 535 History and Foundations of Health I	3

- 0837 601 Research Seminar in Health 3
(plus an additional 3 semester hours health professions course)
or
- 0837 603 Research Project in Health 3
- II. Selected Health Professions Coursework 9
The selection of coursework in this area will be determined through careful identification of the academic and professional goals of the student and will pertain to the major thrust of the candidate within the broad parameters of the health education field. See possible areas of emphases listed on previous page; consult with the graduate advisor.
- 0837 530 Seminar in Basic Issues in Health 3
(This course is recommended but not required prior to the comprehensive examination.)
- III. Electives 8
- IV. Comprehensive Examination
All matriculated students for the M.A. in Health Education who have completed 15 semester hours or more of health professions coursework, are eligible to take the Written Comprehensive Examination. Candidates are required to complete *any* three items chosen from among five provided in areas of: *research methods, evaluation, history, basic issues* and *curriculum*. Students retaking any item of the examination may respond to the item area they originally failed or they may employ the option of selecting any other item(s) not previously taken. The examination is scheduled in January and June of each year; prior registration is necessary through completion of applications available in the departmental offices. Candidates are limited to three attempts in completing the examination. There are no exceptions to this requirement.
- Note:
- No more than two of the following 400-level courses may be taken for credit applicable to this master's degree:
0837 411 The School Health Program 3
0837 430 Health Counseling 3
0837 440 Health Aspects of Aging 3
0837 445 Perspectives on Death 3
0837 460 Systems of Health Care Delivery 3
0837 470 Patient Education 3
0837 490 Ethics in Health Care 3
0837 491 Health Education and the Computer 3
 - The department provides opportunity for membership in Eta Sigma Gamma, a national health science honorary society.

HEALTH PROFESSIONS

	Course Descriptions	Semester Hours
5	0837 502 DETERMINANTS OF ENVIRONMENTAL HEALTH	3
	Advanced study of health and safety aspects of the environment: air, water, industrial pollution and the impact of expanding population on health problems. Prerequisite: Courses in similar field or permission of instructor.	

5 0837 503 RESEARCH METHODS IN HEALTH 3

Theoretical and practical experiences in methods of inquiry, designing of research studies, utilization of various tools for gathering data, statistical analysis of data, and writing of research proposals.

Prerequisite: 5 0837 528.

5 0837 510 HEALTH EDUCATION WORKSHOP I 1

For teachers of health education; deeper understanding of subject matter, current methods and techniques for the classroom, and considerations for curriculum development.

5 0837 511 BIOMEDICAL AND SOCIAL PERSPECTIVES ON ALCOHOL 3

Examines the different biological and pharmacological effects of alcohol use and common health complications of chronic abusive drinking. Includes a comprehensive study of the multiple theories of the development of alcoholism, its progression, and its impact on the individual, the family and the community at large.

5 0837 512 ALCOHOL WORKSHOP 3

A process-oriented experience planned to enrich and synthesize understanding of selected physiological, psychosocial, medical, legal, economic and safety factors associated with alcohol use and abuse. Attention is focused on education, prevention, treatment and rehabilitation techniques and the study of existing programs.

Prerequisite: Instructor's permission.

5 0837 513 DRUG ABUSE SEMINAR 3

Advanced study in selected aspects of drugs: recent pharmacological, legal, economic and rehabilitative developments. Emphasizes individual project approach.

Prerequisite: Course in addictions and dependancies or the drug abuse problem or instructor's permission.

5 0837 514 SEXUALLY TRANSMITTED DISEASES 3

In depth study of determinants of sexually transmitted diseases, their impact on the individual and society, and the special medical, psychological, and social problems which they generate.

5 0837 516 SELECTED DEVELOPMENTS IN COMMUNITY HEALTH 3

Advanced study of aspects of community health: recent developments in air and water pollution, waste disposal and sanitation, and communicable disease protection.

Prerequisites: Courses in similar field or instructor's permission.

5 0837 526 CURRICULUM DEVELOPMENT IN HEALTH EDUCATION 3

Nature and construction of comprehensive health education curricula, elementary grades through senior high school. Recommended for health education majors only.

Prerequisite: Basic course in health education and basic course in methods of teaching health education.

5 0837 528 THE EVALUATION OF HEALTH

3

Measurement and evaluation processes relating to health in schools and communities: examination and development of research instruments to evaluate behavior, knowledge and attitudes; interpretative and administrative factors involved in the evaluation process.

Prerequisite: A basic course in statistics or in tests and measurement.

5 0837 530 SEMINAR IN BASIC ISSUES IN HEALTH

3

Contemporary health topics and problems are identified, interpreted and critically analyzed for development of deeper insights and understanding of the basic issues; individual or group research project.

5 0837 531 INDEPENDENT STUDY IN HEALTH

1

Under the direction of departmental faculty member. Semester hours determined by department chairperson following consultation with departmental research committee.

Prerequisite: Majors only.

5 0837 532 AIR POLLUTION

3

A consideration of the diverse factors contributing to air pollution, the physiological responses of critical organs to air pollutants, public health and economic implication, air pollution control standards and legislation, and principles of monitoring devices.

Prerequisites: Year courses in college chemistry, and mammalian anatomy and physiology.

5 0837 535 HISTORY AND FOUNDATIONS-HEALTH I

3

Comprehensive historical study of our continual struggle against the forces of disease and infirmity. Includes health and medical practices of primitive peoples, ancient civilizations, the Middle Ages, and the renaissance.

Prerequisite: Majors only or instructor's permission.

5 0837 540 SELECTED TOPICS IN MENTAL HEALTH

3

Entails use of seminar approach for in-depth analysis of selected topics in mental health. Topics will vary according to class interest, but will include, among others, stress, labeling, racism, sexism, and ageism.

5 0837 545 STRESS AND ILLNESS

3

Provides for an in-depth study of the relationship between stress and illness. In the process of exploring this relationship, the major sources of stress are identified and their psychosocial determinants and their impact on health are analyzed and discussed. The mechanism of coping with stress and the strategies for reduction and prevention of stress are also studied and critically evaluated.

Prerequisite: 5 0837 540.

5 0837 550 FUNDAMENTALS OF GERIATRICS

3

A study of the health and well-being, as well as the diseases, of the aged. Individual and community attitudes as they affect the health status of the gerian are examined. Contemporary topics such as changing physiology, mental health, sexuality, health maintenance, terminal care and death as they relate to the aged are also investigated.

5 0837 551 SELECTED TOPICS IN GERONTOLOGY 3

Entails use of seminar approach for in-depth analysis of selected topics in gerontology. Topics will vary according to class interest, but will include, among others, ageism, health problems, loss and diminishment, homelessness and terminal old age.

Prerequisite: 5 0837 440.

5 0837 560 HUMAN DISEASES 3

Presents a contemporary view of the major infectious and chronic/degenerative diseases with an emphasis on the principles of causation, process, diagnosis, prevention, and management. Important past and present medical developments are discussed in the context of continuing change, methods and inferences of epidemiologic investigation are studied and the implications of ongoing research are considered. Concludes with an instructional component which addresses methodology and disease specific information resources.

Prerequisite: A basic course in biology.

5 0837 565 FOUNDATIONS OF EPIDEMIOLOGY 3

Provides an understanding of the epidemiologic method of identifying disease-causing agents. Emphasizes the generation of hypotheses based on descriptive epidemiologic data, the testing of hypotheses by analytical epidemiologic research design, the determination of causality and value of epidemiologic research in developing disease prevention programs.

5 0837 570 HUMAN SEXUALITY II 3

This course is designed for students who seek knowledge of the ethical, moral, psychological and biological concepts in human sexuality.

Prerequisite: 5 0837 290.

5 0837 575 THE TEACHING OF HUMAN SEXUALITY 3

Provides for the study of instructional methodologies and resource materials pertaining to human sexuality education. Emphasizes curriculum development, teaching plans, resource selection and the role of the teacher in school and community setting.

5 0837 576 FAMILY PLANNING EDUCATION 3

Provides students with an in-depth study of family planning education. Topics include history, methods of birth control, process of decision making, family planning services and methods and materials for family planning education.

5 0837 580 HEALTH POLICY AND POLITICS 3

Provides for the study of politics of health care, health policy issues and the health care delivery system. Special emphasis is placed on health policy as it has evolved in response to sociopolitical and economic factors and expected future trends.

5 0837 585 ORGANIZATION AND ADMINISTRATION OF HEALTH CARE FACILITIES 3

Analyzes organization and administration of health care facilities. Topics include nature of health care facilities, managerial processes, institutional staffing and productivity, social responsibilities, techniques of managerial innovation, funding sources and health facility legislation. Provides practical applications of relevant theory.

- 5 0837 586 HEALTH CARE FACILITIES AND SERVICES FOR THE AGED 3**
 An intensive study of the various health care facilities and services for the aged. Emphasizes the functions, administrative structure, and financing of these facilities, and explores accessibility, distribution of services, utilization patterns, financial assistance plans and health manpower. Trends in health care facilities and services for the aged are also discussed.
 Prerequisite: Health Aspects of Aging or equivalent.
- 5 0837 588 PLANNING AND EVALUATION OF HEALTH PROGRAMS 3**
 Provides for the study of the processes and techniques of program planning, program implementation and program evaluation from a community health perspective, utilizing material from the related disciplines of epidemiology, sociology, psychology, anthropology, and social work.
 Prerequisite: School and Community Health Program or Equivalent.
- 5 0837 601 RESEARCH SEMINAR IN HEALTH 3**
 Provides intensive study of the entire spectrum of research literature in the health professions field. Includes opportunities for analysis and critique of selected research studies and synthesis of research findings for theoretical and practical application.
 Prerequisites: 5 0837 503, 528.
- 5 0837 603 RESEARCH PROJECT IN HEALTH 3**
 Provides an intensive research experience for master's degree candidates in health education. It reflects the culmination of coursework and involves the completion of a research document. All candidates must satisfactorily complete an oral examination based on the research experience.
 Prerequisite: Successful completion of the departmental written comprehensive examination, 5 0837 503, 528.

HOME ECONOMICS

Chairperson and Graduate Advisor: Dr. Karen I. Todd

The graduate program in Home Economics offers three professional emphases: Consumer Studies/Consumer Economics, Family Relations/Child Development, and Home Economics Education.

The program is designed to provide students with advanced study needed for college and university teaching, for leadership positions in various professions in business, for social welfare agencies, for public school and adult education programs, for research, and for extension service.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. An individual program of study is developed for each student depending on professional goals and educational background.

Students lacking adequate preparation may be required to take additional courses at the undergraduate level as prerequisite to graduate study. Each 500 level course has as its prerequisite a course satisfactorily completed within the last 5 years in the same area of study on the undergraduate or graduate level.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN HOME ECONOMICS

	Semester Hours
I. Required Courses	12-13
1301 507 Research in Home Economics	3
1301 509 Research Seminar or 1301 600 Thesis	3 or 4
1301 540 Interdisciplinary Study of the Family	3
1301 590 Contemporary Issues in Home Economics	3
II. Professional Emphasis	9
Select from one of the following groups:	
A. Consumer Studies-Home Management- Consumer Economics	
1301 530 Consumer Behavior	3
1301 531 Family Financial Problems	3
1301 532 Family and Consumer Economics	3
1301 535 Consumer and Family Law	3
1301 570 The Management of Family Resources	3
1301 571 Problem-Solving in Family Counseling	3
0893 403 Consumer Education Techniques	3
B. Family Relations-Child Development	
1301 503 Program Development in Family Life Education	3
1301 514 The Child in the Family	3
1301 542 Dynamics of Family Interaction	3
1301 544 Intercultural Study of the Family	3
1305 445 The Inner City Family	3
C. Home Economics Education	
1301 501 Seminar in Home Economics Education	3
1301 503 Program Development in Family Life Education	3
1301 506 Supervision of Home Economics	3
0893 403 Consumer Education Techniques	3
III. Home Economics Electives	3-9
To be selected from approved Home Economics courses.	

- IV. Electives Outside the Department 3-9
- V. Comprehensive Examination, both oral and written to be taken after completing 24 semester hours of graduate study. Students must apply to the graduate advisor at the beginning of the semester in which the exams will be taken. The comprehensive examination is given each Fall and Spring semester.
- VI. Candidates who choose to write a thesis will register for 1301 600 for four semester hours credit in lieu of 1301 509 Research Seminar. The comprehensive exam is waived. A thesis defense is required upon the completion of the thesis before the candidate's graduate Thesis Committee.
- Minimum: 33 semester hours

HOME ECONOMICS

Course Descriptions	Semester Hours
6 1301 501 SEMINAR HOME ECONOMICS EDUCATION	3
Identification of the issues in home economics education at all levels. Trends are analyzed as a basis for managing change in curriculum and instruction. Each participant will design a project and plans for implementation. Prerequisite: Graduate status.	
6 1301 503 PROGRAM DEVELOPMENT IN FAMILY LIFE EDUCATION	3
Analysis of the development of family living programs in public schools and other agencies. Current problems, practices, and trends. Designing and planning for the implementation of innovative programs. Prerequisite: Graduate status.	
6 1301 507 RESEARCH IN HOME ECONOMICS	3
Designed to provide basic research and statistical literacy so that the student can develop a research proposal in its entirety in any one area of home economics. Prerequisite: 6 1301 304 or equivalent course; graduate matriculation; majors only.	
6 1301 508 INDEPENDENT STUDY	1-3
An opportunity to study in depth, areas of home economics which are not offered in the regular curriculum. Approval of department chairman required. Prerequisite: Instructor's permission; graduate status.	
6 1301 509 RESEARCH SEMINAR	3
Carrying out a research study on specific problems of limited scope. Work may be taken in the following areas; child and family, family and consumer studies, family housing, foods, nutrition, textiles, clothing or home management. Prerequisite: 6 1301 507; graduate matriculation; majors only.	
6 1301 514 CHILD IN THE FAMILY	3
An intensive study of the theories and research related to child rearing techniques. Analysis of factors influencing parental practices and their effects on the child. Prerequisite: Graduate status.	

- 6 1301 530 CONSUMER BEHAVIOR 3**
Investigating consumer behavior from the consumers' perspective. Emphasis on individual perception, motivation, learning, and personality as well as family organization, social class, subcultures and national economic trends.
Prerequisite: Graduate status.
- 6 1301 531 FAMILY FINANCIAL PROBLEMS 3**
Study of families with financial concerns and crises. Emphasis on effective use of money to meet families' life styles and alleviate problem areas.
Prerequisite: Graduate status.
- 6 1301 532 FAMILY AND CONSUMER ECONOMICS 3**
Study of families and consumers from economic perspectives in society. Emphasis on broad implications of economic practices and policies for various groups of families as they function in the marketplace.
Prerequisite: Graduate status.
- 6 1301 535 CONSUMER AND FAMILY LAW 3**
Laws and policies of institutions which affect family function, relationships and welfare.
Prerequisite: Graduate status.
- 6 1301 540 INTERDISCIPLINARY STUDY OF FAMILY 3**
Contributions which various academic disciplines (history, anthropology, biology, economics, as well as psychology and sociology) make towards a more comprehensive understanding of family life.
Prerequisite: Graduate status.
- 6 1301 542 DYNAMICS OF FAMILY INTERACTION 3**
Critical review on concepts and theories, both psychological and sociological, currently used in understanding patterns and problems of family relationships.
Prerequisite: Graduate status.
- 6 1301 544 INTERCULTURAL STUDY OF FAMILY 3**
Analytical study of cross cultural regularities and differentials in family structures. Functions and impact of social change on family values and patterns. Varied conceptual approaches to the study of family as well as a broad acquaintance with empirical studies and research.
Prerequisite: Graduate status.
- 6 1301 570 MANAGEMENT OF FAMILY RESOURCES 3**
Family as a decision-making unit. Directing its resources for more effective living. Philosophical, psychological, sociological and economic trends which have a direct influence on family's ability to maximize its resource potential status.
Prerequisite: Graduate status.
- 6 1301 571 PROBLEM SOLVING IN FAMILY COUNSELING 3**
Counseling families in problem solving on resource use, including the resources of time, energy, attitudes and material and non-material goods and services.
Prerequisite: Graduate status.

6 1301 580 NEW FINDINGS IN NUTRITION

3

Recent developments in nutrition and a critical review of fundamentals.

Prerequisite: Graduate status.

6 1301 590 CONTEMPORARY ISSUES IN HOME ECONOMICS **3**

A seminar dealing with issues in home economics with special emphasis on designing programs for social change.

Prerequisites: Graduate matriculation and 20 semester hours in graduate program, majors only.

6 1301 600 THESIS IN HOME ECONOMICS

4

Individual research selected under advisement of a faculty committee. An oral exam by the committee follows the completion of the project. Required for registration: written permission from major faculty advisor of the research, and department chair; graduate matriculation.

Prerequisites: 6 1301 507 and instructor's permission.

INDUSTRIAL STUDIES

Chairperson and Graduate Advisor: Dr. Martin Greenwald

The graduate program in Industrial Education and Technology is designed to improve the professional training of industrial education teachers, to enhance their teaching proficiency through study of trends and developments in the field, to improve the organization of the industrial arts laboratory and to provide a basis for work in administration and supervision. Emphasis is given to advanced work in Industrial Education and related fields which broaden professional experiences and accent industrial concepts.

Graduate programs of students matriculated in the department are tailored to the individual's needs through consultation with the graduate advisor. Students must meet the departmental requirements for either a thesis program (Option A) or a non-thesis program with a comprehensive examination (Option B).

Graduate students matriculated in the Master of Arts degree program who desire certification as a Supervisor of Industrial Education or as a Coordinator of Cooperative Industrial Education can arrange their programs with the graduate advisor.

ADMISSION REQUIREMENTS

Study toward the Master of Arts degree in Industrial Education and Technology presupposes the completion of an undergraduate major in the same area. Individuals who have undergraduate majors in this area, but do not wish to work toward a degree, may enroll in graduate courses in the department.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION A)

	Semester Hours
I. Required Courses	
A. General	6
0824 503 Methods of Research	3
Education Elective	3
B. Industrial Education Specialization	12
1. Required	
0996 502 Curriculum Construction and Course Organization in Industrial Education	3
0996 509 Industrial Education Facilities Planning	3
0996 607 Research Seminar in Industrial Education (Full Year)	6
2. Electives	6
Six semester hours approved by departmental advisor to be selected from: 0996 501, 503, 504, 505, 606.	
II. Free Electives	4
Selected from among any 500 or 600 level course for which the student meets any departmental prerequisites or restrictions. Senior graduate (400 level) courses must be approved by the graduate advisor, when the offi- cial work program is developed.	
III. Thesis	4
Each candidate for this program will select a thesis topic, thesis advisor, two thesis committee members (one within the department, one from out- side the department) and register according to department and College policy. An oral examination based on the completed thesis is part of the thesis requirement.	

Minimum: 32 semester hours

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN INDUSTRIAL EDUCATION AND TECHNOLOGY

(OPTION B)

	Semester Hours
I. Required Courses	
A. General	6
0824 503 Methods of Research	3
Education Elective	3
B. Industrial Education Specialization	12
1. Required	
0996 502 Curriculum Construction and Course Organization in Industrial Education	3

- 0996 509 Industrial Education Facilities
Planning3
- 0996 607 Research Seminar in Industrial Education
(Full Year)6
2. Electives12
Twelve semester hours approved by departmental advisor to be
selected from: 0996 501, 503, 504, 505, 606.
- II. Free Electives4
Selected from among any 500 or 600 level course for which the student
meets any departmental prerequisites or restrictions. Senior graduate (400
level) courses must be approved by the graduate advisor, when the offi-
cial work program is developed.
- III. Comprehensive Examination
A written comprehensive examination, scheduled twice each year during
the Fall and Spring semester, is required of all candidates for the Master
of Arts Degree within this program option.
Minimum: 36 semester hours

Certification

The department offers three forms of certification:

1. Supervisor
2. Cooperative Industrial Education Coordinator
3. Post-Baccalaureate
 - (a) initial field
 - (b) additional field

For more details, see certification section of this catalog or contact the depart-
ment graduate advisor.

INDUSTRIAL EDUCATION AND TECHNOLOGY

	Course Descriptions	Semester Hours
7 0996 501	HISTORICAL AND CONTEMPORARY INDUSTRIAL STUDIES LITERATURE	3
	Material surveyed for applicability to laboratory teaching and professional improvement: historical writings, research literature, materials provided by corporations and government agencies and pertinent reference works.	
7 0996 502	CURRICULUM CONSTRUCTION AND COURSE ORGANIZATION IN INDUSTRIAL STUDIES	3
	Development of industrial education courses of study and instructional materials.	
7 0996 503	CONTEMPORARY PROBLEMS IN INDUSTRIAL STUDIES	3
	Seminar group exploration of a current problem or issue in contemporary indus- trial education: a research, discussion, presentation format.	
7 0996 504	INSTRUCTIONAL MATERIALS IN INDUSTRIAL STUDIES	3
	The research, creation, development, and application of innovative industrial education methodology and instructional materials. Prerequisite: 4 0840 400 or instructor's permission.	

7 0996 505 SUPERVISION OF INDUSTRIAL STUDIES 3

Principles and practices discussed and evaluated in relation to supervisory techniques, budget supplies, inventories, maintenance, safety and upgrading of in-service teachers.

7 0996 506 MAINSTREAMING THE SPECIAL EDUCATION PUPIL IN INDUSTRIAL EDUCATION 3

An introduction to disabilities and related behaviors, practices and materials and resources available to assist the instructor in the successful integrating of special needs learners into the industrial education classroom/laboratory.

7 0996 507 ADAPTIVE INDUSTRIAL EDUCATION 3

A study of principles, procedures and techniques utilized in the design and implementation of adaptive industrial education programs for students with special needs. Emphasis will be on the implementation of program material and instructional strategies appropriate for use in a self-contained setting.

7 0996 508 PRACTICUM IN SPECIAL NEEDS- INDUSTRIAL EDUCATION 3

Students draw upon a field experience for the purpose of curriculum modification related to an aspect of special needs-industrial education. Sixty five hours of practicum permit students to integrate classroom learning with on-the-job implementation.

Prerequisites: 7 0996 506, 507.

7 0996 509 INDUSTRIAL STUDIES FACILITIES PLANNING 3

Planning and equipment selection; practical application of architectural aspects, floor plan layouts, equipment selection, bid preparation and two- or three-dimensional models.

7 0996 512 INTRODUCTION TO TECHNOLOGY EDUCATION 3

This course is designed to provide the student with the concepts, content and methodology of technology education for application in grades K-12. The systems approach (biotechnology, physical technology and information technology) will be studied. Problem solving as a methodology will be emphasized. Students will participate in actual technology learning activities.

7 0996 606 INDEPENDENT STUDY INDUSTRIAL STUDIES I 1-3

Advanced individual study on problems beyond what can be accomplished in the classroom. Credit may be obtained for an approved industrial course of seminar related to the student's special area of interest. May be taken three times with the graduate advisor's approval, for a total of three semester hours. Prerequisite: 4 0824 503 or instructor's permission.

7 0996 607 RESEARCH SEMINAR IN INDUSTRIAL STUDIES 6

A survey of industrial research, technical reports, centers, institutes, laboratories and material standards. The undertaking of an industrial research and development problem, reflecting the graduate students' area of concentration, and the preparation of a publishable technical report. To run a full academic year from September to June.

Prerequisite: 4 0824 503.

7 0997 501 PRINCIPLES AND PHILOSOPHY OF COOPERATIVE INDUSTRIAL STUDIES 3

Historic, cultural, social, governmental, economic and technical forces which affect development of cooperative industrial education programs.

7 0997 502 CURRICULUM CONSTRUCTION IN COOPERATIVE INDUSTRIAL STUDIES 3

Techniques designed to meet needs of related and laboratory teaching, and school work programs; curriculum materials especially adapted to needs of part-time cooperative trade occupational programs.

7 0997 503 PROBLEMS IN ORGANIZING AND TEACHING COOPERATIVE INDUSTRIAL EDUCATION PROGRAMS 3

Various practices for coordinating high school programs with needs of local industry. Emphasis on supervisory responsibilities within the school and cooperation required with public and private agencies.

7 0996 582 CAREER GUIDANCE AND OCCUPATIONAL INFORMATION 3

Covers the principles of career guidance, use of tests and interest inventories in career guidance, sources and usage of career information, theories of career development, counseling on how to find and hold a job, and placement activities. Also includes an introduction to career education. Students will visit industries and post-secondary training. Cross-listed as 2 0826 582.

LINGUISTICS

Chairperson: Dr. Alice Freed

Students seeking certification in Teaching English as a Second Language may take the courses listed below to satisfy state requirements. Students in other programs may elect Linguistics courses with their advisor's prior approval.

LINGUISTICS

Course Descriptions

Semester Hours

Q 1505 520 APPLIED LINGUISTICS IN MINORITY EDUCATION 3

The applications of linguistics, psycholinguistics, and sociolinguistics to the teaching of languages. Topics include second-language teaching, teaching standard English to speakers of non-standard English, and the teaching of reading and writing.

Q 1505 525 SOCIOLINGUISTICS IN EDUCATION 3

Study of language in its social context. Topics include: language and ethnicity, language and social class, standard vs. nonstandard varieties of language, code-switching, pidginization and creolization, attitudes towards non-standard varieties of language.

Q 1505 540 LANGUAGE AND CULTURE IN MINORITY EDUCATION 3

Intended to develop an awareness in the student of the intimate connection between language, culture, and ethnic pride and identity. Study of the communication problems of bilingual children due to differences in the verbal and non-verbal patterns of communication, survey of the various instructional methods and models employed in teaching children from different linguistic and cultural backgrounds, and study of the correlation between language and socio-economic class.

MATHEMATICS AND COMPUTER SCIENCE

Chairperson: Dr. Kenneth C. Wolff

Graduate Advisor: Dr. Helen M. Roberts

The Department of Mathematics and Computer Science offers two masters degrees, a Master of Arts Degree in Mathematics with four different concentrations and a Master of Arts Degree in Computer Science. Both degrees offer the option of selecting areas of special concentrations.

MASTER OF ARTS DEGREES IN MATHEMATICS

The Master of Arts Degree in Mathematics has four different areas of concentration: computer science, mathematics education, pure and applied mathematics, and statistics. The masters degree in mathematics with a computer science concentration differs from the masters degree in computer science. The programs in computer science, pure and applied mathematics, and statistics provide students with the advanced material needed for positions of leadership in business, industry and government as well as for teaching at the high school level. The program in mathematics education will upgrade the skills of teachers and offers a special combination of courses in mathematics, mathematics education and mathematics education with computers.

At present there are 17 full time faculty teaching graduate courses in mathematics, mathematics education and statistics. The special interests of the faculty include algebra, analysis, applied statistics, combinatorics, graph theory, logic, mathematical modeling, methods and techniques of teaching mathematics, modeling in the biological, chemical and physical sciences, operations research, problem solving, representation theory, and statistical computing. Our faculty in mathematics education are known throughout the United States. A cooperative doctoral program between Montclair State College and Teacher's College Columbia University is available to qualified students in the mathematics education program. Further information on this program is available from the chairperson.

ADMISSION REQUIREMENTS

The candidate for the Master of Arts Degree in Mathematics must present an undergraduate major of at least 30 semester hours in mathematics from an accredited institution. Courses in a related area that have a substantial mathematical content may be submitted toward this requirement. Candidates whose undergraduate preparation is deficient in either depth or breadth will be required to complete certain prerequisites which will not carry graduate credit. All students must meet the admission requirements for graduate study at Montclair State College.

A candidate for the Master of Arts degree in Mathematics must consult the graduate advisor of the department before matriculation since the choice of graduate courses should be adjusted to the level of preparation in undergraduate work. The student's work program (course requirements of a minimum of 33 semester hours) is prepared in consultation with the graduate advisor. Up to 6 semester hours can be taken at the 400 level. In order to be awarded a Master of Arts Degree in Mathematics, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the Department of Mathematics and Computer Science. In addition a student must pass a comprehensive examination. The content of the examination is based on the degree option chosen. Students are required to have a 3.0 grade point average in order to be eligible to take the comprehensive examination.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MATHEMATICS

MA Mathematics Computer Science Concentration

- I. Computer Science Courses.....12
Three courses selected from:
0701: 580, 581, 583, 586.
One additional course selected from:
0701: 570 to 597, or 1701: 560.
- II. Mathematics Electives 15
Courses selected from:
1701: 520 to 569, 580 to 595
1701: 420 to 469

At least 12 semester hours must be at the 500 level. 1701: 425, 426, either 431 or 436 and either 440 or 443 must be taken if equivalent courses have not been taken previously.

- III. Free Electives 6
- IV. A comprehensive examination in Computer Science and a subspecialty selected from Algebra, Analysis or Statistics. The subspecialty dictates the choice of some of the Mathematics Electives.

MA Mathematics Mathematics Education Concentration

- I. Mathematics Education 12
 - Four courses selected from:
 - 1701: 510 to 513, 570 to 579, 0701: 514*,
 - with at least one course selected from each of the following three groups:
 - Group A 1701: 570, 571, 572, 573
 - Group B 1701: 574, 575, 579
 - Group C 1701: 512, 513, or 0701: 514
- II. Mathematics and/or Computer Science Electives 15
 - Five courses selected from:
 - Algebra: 1701: 431, 531, 532, 535, 536
 - Analysis: 1701: 425, 426, 521, 522, 525, 526
 - Applied Mathematics Continuous: 1701: 420, 560, 564, 566, 568
 - Applied Mathematics Discrete: 1701: 569, 580, 581, 584
 - Computer Science: 1701: 514*, 570-597 and 1701: 560
 - Geometry: 1701: 428, 450, 551, 554, 555
 - Statistics: 1701: 440, 441, 443, 540 to 549.
 - Courses must be taken in at least 3 of these 7 areas. At least 9 semester hours must be at the 500 level. 1701: 425 and 431 must be elected if equivalent courses have not been taken previously.
- III. Free Electives 6
- IV. A comprehensive examination in Mathematics Education (based on courses in Groups A and B above) and a subspecialty selected from Algebra, Analysis, Computer Science or Statistics. The subspecialty dictates the choice of some of the Mathematics and/or Computer Science Electives.

*0701: 514 may count for credit as a course in Group C under Mathematics Education or as a Computer Science course under Mathematics/Computer Science Electives but not in both areas.

MA Mathematics Pure and Applied Concentration

- I. Pure Mathematics 12
 - Algebra: 1701: 531-532 or 1701: 535-536
 - Analysis: 1701: 521-522 or 1701: 525-526
- II. Applied Mathematics 6
 - Two courses selected from:
 - 1701: 560, 564, 580, 581

- III. Mathematics and/or Computer Science Electives 15
 In addition to any of the remaining courses listed above, any of the mathematics courses numbered 520 to 569, 580 to 595, including but not limited to:
 1701: 540, 541, 548, 566, 568, 569, 584, may be selected.
 Alternative electives (e.g. 1701: 420 to 469, 0701: 570 to 597) are encouraged with prior written approval of the graduate advisor.
 1701: 425-426 must be elected if equivalent courses have not been taken previously.
- IV. A comprehensive examination in Algebra, Analysis and Applied Mathematics.

MA Mathematics
 Statistics Concentration

- I. Statistics Courses 12
 1701: 541, 543, 544, 548
- II. Mathematics and/or Computer Science Electives 15
 Courses selected from:
 1701: 520 to 569, 580 to 595
 0701: 570 to 597
 1701: 420 to 469
 At least 12 semester hours must be at the 500 level. 1701: 425, 426 and either 440 or 443 must be taken if equivalent courses have not been taken previously
- III. Free Electives 6
- IV. A comprehensive examination in Statistics and a subspecialty selected from Algebra, Analysis or Computer Science. The subspecialty dictates the choice of some of the Mathematics and/or Computer Science Electives.

MASTER OF ARTS DEGREE IN
 COMPUTER SCIENCE

The Department offers a Master of Arts Degree in Computer Science. A Master of Arts Degree in Computer Science with concentrations in Applied Statistics, Applied Mathematics, and Mathematics Education are currently being developed. The Master of Arts Degree in Mathematics with a concentration in Computer Science is discussed under Master of Arts Degrees in Mathematics.

The graduate program in computer science is designed for students interested in pursuing computer science theoretically as well as practically at an advanced level. The concentrations within the M.A. in Computer Science which are being developed will allow for the study of complementary areas that are becoming computer intensive. The programs are designed to emphasize the foundations and concepts of computer science as well as to introduce students to the new and developing applications of computer science. Students are prepared for professional work in the design and implementation of software systems, data base systems, operating systems, artificial intelligence, graphics, simulation and algorithms for discrete and continuous structures. Knowledge in these areas will aid in the solution of problems in science and business. The

curriculum is designed to allow students to develop the skills needed to achieve leadership positions in business, industry, and government in computer science or related fields where computers have become an important tool. The program is also designed to prepare teachers of computer science at the middle school, high school and two year college levels.

The graduate program in computer science, which began in 1978, has 12 full time faculty members teaching courses in computer science. The special interests of the faculty include algorithms, artificial intelligence, automata theory, complexity theory, data bases, expert systems, graphics, hardware, machine organization and architecture, management information systems, operating systems and telecommunications. The department has the advantage of having professional computer scientists as both faculty and visiting specialists. The visiting specialists are drawn from the aerospace, chemical and pharmaceutical industries. This mix of faculty affords the students the opportunity to obtain an education in both the practical and theoretical aspects of computer science.

Montclair State College is one of the principal users of the New Jersey Educational Computing Network (NJEEN), a corporation which provides computing services to the state colleges. Through a laboratory containing 25 IBM 3179 type terminals and a remote job entry station, students can program on an IBM 3033U, in the batch mode or using TSO, and on an IBM 4381, using the conversational/interactive mode. Software packages available through NJEEN include SAS and SPSS for statistical computing; FOCUS, and IDMS for data base management systems; IMSL (International Mathematics and Statistics Library) for mathematical and statistical problem solving; and LISP. Additional computer power is provided by a VAX 11/780 and a VAX 8200 with 20 terminals and a MicroVAX II with 7 terminals. Software packages available through the VAX system include GPSS/VX, IMSL MATH/PROTRAN, LISP, MAPLE, MATRIX Mini-Dynamo, Minitab, Prolog, SLAM II, and SMP. Facilities for graphics include a Silicon Graphics IRIS workstation, a Momentum graphics workstation, and a graphics plotter. In addition various microcomputers are available for students. There are 20 Digital Rainbow microcomputers in one microcomputer laboratory, 6 Apple computers and various other microcomputers in another microcomputer laboratory. During the academic year 1987/88 most of the campus will gain access to the Montclair State College Network via local area networks connected through a fiberoptic backbone. Through NJEEN and BITNET software, we can communicate with colleges and universities around the world.

ADMISSIONS REQUIREMENTS

1. Applications must be submitted by March 1 in order to be guaranteed consideration for Fall Admissions. Applications submitted after March 1 will be considered on a space available basis.
2. Applicants must possess a bachelors degree from an accredited institution with either:
 - a. A major in computer science or mathematics
 - b. A major in science or engineering
 - c. Another major with an overall cumulative grade-point average of 3.0 (B) or other indications of the ability to complete the program.

3. Applicants must have taken at least 15 undergraduate mathematics credits including calculus, linear algebra, probability and discrete mathematics. Deficiencies in mathematics can be rectified by taking 1701: 501, 502, 503, which are accelerated Mathematics courses. When required, these will be "prerequisite courses" on the graduate work program. The sequence of prerequisites requires one year to complete, i.e., Fall, Spring and Summer semester.
4. Applicants must
 - a. have knowledge of data structures and
 - b. be proficient in the following computer programming languages:
 - i) FORTRAN or Pascal or PL/I
 - ii) Assembly Language

A two-semester course sequence in a language or one year's programming experience in industry will suffice for each of these requirements. Deficiencies in computer science can be rectified by taking 0701: 505, 506, 507. These are accelerated computer science courses designed for the student to master the necessary concepts for the graduate program rather than just routine programming skills. When required these will be listed as "prerequisite courses" on the graduate work program. The sequence requires one year to complete, i.e., Fall, Spring and Summer semester.

Applicants satisfying admission requirements but needing to make up work in the fundamentals of Mathematics and/or Computer Science (1701: 501, 502, 503 and 0701: 505, 506, 507) are granted deferred matriculation. Upon completion of the necessary courses with a minimum grade point average of 3.0, students will be granted full matriculation.

All students must meet the admissions requirements for graduate study at Montclair State College.

A candidate for the Master of Arts degree in Computer Science must consult the graduate advisor of the department before matriculation since the choice of graduate courses should be adjusted to the level of preparation in undergraduate work. The student's work program (course requirements of a minimum of 33 semester hours) is prepared in consultation with the graduate advisor. In order to be awarded a Master of Arts Degree in Computer Science, a student will be required to have an overall 3.0 grade point average, as well as a 3.0 grade point average for courses taken in the Department of Mathematics and Computer Science. In addition a student must have a passing grade on a comprehensive examination. Students are required to have a 3.0 grade point average in order to be eligible to take the comprehensive examination.

Note: Courses 1701: 501, 502, 503 and 0701: 505, 506, 507 are not to be counted among the 33 semester hours required for completion of the program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN COMPUTER SCIENCE

MA Computer Science

- I. Computer Science 21
 Required courses: 0701: 580, 581, 583, 586
 Three additional courses selected from:
 0701: 570 to 597 and 1701: 560
- II. Mathematics and/or Computer Science Electives 12
 Courses selected from:
 0701: 570 to 597
 1701: 420 to 469
 1701: 520 to 569
 1701: 580 to 595
 Substitutions allowed with prior written approval of the graduate advisor.
- III. A comprehensive examination in Computer Science.

COMPUTER SCIENCE

Course Descriptions	Semester Hours
Y 0701 505 FUNDAMENTALS OF COMPUTER SCIENCE I	4
An introduction to programming using a structured high level language, design of algorithms, character strings, recursion, data structures, numerical computing. May not be used for credit by Mathematics or Computer Science majors. Prerequisite: Graduate advisor's permission.	
Y 0701 506 FUNDAMENTALS OF COMPUTER SCIENCE II	4
A continuation of 0701 505. Introduction to assembly language, addressing techniques, subroutine linkage, input/output and macros. Introduction to computer organization including memory, logic design and computer architecture. May not be used for credit by Mathematics and Computer Science majors. Prerequisites: Y 1701 501, Y 0701 505 and graduate advisor's permission.	
Y 0701 507 FUNDAMENTALS OF COMPUTER SCIENCE III	3
A continuation of 0701 505 and 506. Design and analysis of data structures, pointers, linked representations. May not be used for credit by Mathematics and Computer Science majors. Prerequisites: Y 1701 502, Y 0701 506 and graduate advisor's permission.	
Y 0701 514 ADVANCED PLACEMENT COMPUTER SCIENCE CONCEPTS WITH PASCAL	3
This course is specifically designed to help senior high school teachers prepare to instruct the AP course in computer science. Topics include the problem solving process, good programming style, the syntax of Pascal, and their applications to computer science. Pascal will be a vehicle for classroom examples and outside class assignments. It will be used to discuss algorithms, data structures, procedures, program design, sorting and searching. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors. Prerequisite: Permission of the graduate advisor.	

Y 0701 578 INTRODUCTION TO ARTIFICIAL INTELLIGENCE 3

An introduction to artificial intelligence including representations of knowledge, problem solving, games, heuristics and backtracking, expert systems, theorem proving, the language LISP and Prolog.

Y 0701 580 MACHINE ORGANIZATION AND ARCHITECTURE 3

Basic computer organization and design, digital functions, data representation, microprogramming, CPU organization, the Assembler language and addressing techniques.

Prerequisites: Y 0701 507, Y 1701 503 and graduate advisor's permission.

Y 0701 581 SYSTEMS SOFTWARE DESIGN 3

Assemblers, macroprocessors, linkers and loaders, introduction to compilers and run facilities.

Prerequisite: Y 0701 580.

Y 0701 582 THEORY OF AUTOMATA AND FORMAL LANGUAGES 3

Languages and grammars, finite automata and regular grammars, context free grammars, push-down automata, Turing machines, computability, deterministic languages, linear bounded automata and stack automata.

Prerequisite: Y 0701 507, Y 1701 503.

Y 0701 583 COMPUTER ALGORITHMS I 3

Algorithms: definition, design and analysis; sorting and searching techniques and introductory dynamic programming studied as algorithms with complexity theory and optimization techniques applied.

Prerequisites: Y 0701 507, Y 1701 503.

Y 0701 584 OPERATING SYSTEM DESIGN 3

Design and implementation of operating systems, multiprogramming, multiprocessor, device management, scheduling, virtual memory, case studies.

Prerequisite: Y 0701 581.

Y 0701 585 TOPICS IN COMPUTER SCIENCE 3

Recent developments in the field. Topics such as Monte Carlo methods, graphics, expert systems, security, networks and special areas of applications.

Prerequisite: Y 0701 580, instructor's permission.

Y 0701 586 INFORMATION RETRIEVAL AND SYSTEM DESIGN 3

Random and sequential files. File organization and processing. Access methods, data bases, system dynamics, concepts and design of information systems. Case studies and applications.

Prerequisite: Y 0701 507, Y 1701 503.

Y 0701 587 MICROCOMPUTERS AND INTERFACES 3

Introduction to geneology, manufacture and hardware design of microprocessors, microcomputer architecture, instruction sets and programming, microcomputer peripherals and interfaces.

Prerequisite: Y 0701 580.

Y 0701 588 COMPUTER ALGORITHMS II 3

Dynamic programming, game trees and backtracking techniques, branch and bound, polynomial evaluation and fast Fourier transform algorithms; complexity and analysis, and optimization techniques will be applied. NP-hard problems and NP-completeness.

Prerequisite: Y 0701 583.

Y 0701 589 COMPUTER SIMULATION OF DISCRETE SYSTEMS 3

Introduction to simulation and discrete simulation models. Queuing theory and stochastic processes. Simulation methodology including generation of random numbers and variates, design of simulation experiments, analysis of data generated by simulation experiments and validation of models. Survey of current simulation languages and selected applications.

Prerequisite: Y 0701 580.

Y 0701 590 COMPUTER SIMULATION OF CONTINUOUS SYSTEMS 3

Computer simulation of continuous systems with emphasis on conservation principles and governing equations, numerical treatment of systems of algebraic and differential equations, the use of software packages and simulation languages, verification and validation techniques, and interpretation and presentation of results.

Prerequisite: Y 0701 580.

Y 0701 591 COMPILER THEORY AND CONSTRUCTION 3

Introduction to the formal description of programming languages, the theory of parsing, and the concepts and techniques used in the construction of compilers.

Prerequisite: Y 0701 581.

Y 0701 592 DATA BASE DESIGN AND IMPLEMENTATION 3

To develop in-depth understanding of data base concepts and issues. The major emphasis of the course is on the conceptual (logical) organization, retrieval, and manipulation of data.

Prerequisite: Y 0701 586.

Y 0701 593 STRUCTURE SYSTEM DESIGN AND ANALYSIS 3

A study of the design of large scale computer systems relative to the constraints imposed by hardware, software and particular types of applications. Recent work in automated system design will be discussed.

Prerequisite: Y 0701 586.

Y 0701 594 SOFTWARE ENGINEERING AND RELIABILITY 3

This course will introduce the principles and methods for the design, coding, and verification of software systems. Topics include software design techniques, programming methodology, programming testing, proving program correctness, software reliability, and software management.

Prerequisite: Y 0701 593.

Y 0701 595 SEMINARS IN COMPUTER SCIENCE 1-4

Guided study of selected topics in major field of interest.

Prerequisite: Instructor's permission.

Y 0701 596 PRINCIPLES OF DATA COMMUNICATION 3

Physical and logical aspects of data communications: analog-digital, broadband-baseband, TDM-FDM, protocols, modulation techniques, hardware for communication.

Prerequisites: Y 0701 580, graduate advisor's permission.

Y 0701 597 LOCAL AREA NETWORKS 3

Fundamental issues and concepts underlying local area network (LAN) development via microcomputers: topology, transmission media and technology, error control, protocols.

Prerequisite: Y 0701 596.

MATHEMATICS

Course Descriptions

Semester Hours

Y 1701 501 MATHEMATICS FOR COMPUTER SCIENCE I 4

Sets, relations, functions, graphs, trees, propositional calculus, induction and recursion, applications to computer science. May not be used for credit by Mathematics or Computer Science majors.

Prerequisite: Y 1701 115 and graduate advisor's permission.

Y 1701 502 MATHEMATICS FOR COMPUTER SCIENCE II 4

A continuation of Y 1701 501. Introduction to linear algebra, vectors, matrices, eigenvalues, introduction to counting rules, probability theory, random variables, Poisson and binomial distribution, applications to computer science. May not be used for credit by Mathematics and Computer Science majors.

Prerequisite: Y 1701 501 and graduate advisor's permission.

Y 1701 503 MATHEMATICS FOR COMPUTER SCIENCE III 3

Differential and integral calculus, infinite series, applications to computer science. May not be used for credit by Mathematics and Computer Science majors.

Prerequisite: Y 1701 115 and graduate advisor's permission.

Y 1701 510, 511 WORKSHOP IN MATHEMATICS 3 each
EDUCATION I, II

Specific contemporary topics and current issues in the junior and senior high school. Available experimental and commercial textbooks. Mathematical content. Sources of aids and equipment. Training of key in-school personnel. Problems of implementation.

Y 1701 512 COMPUTER SCIENCE CONCEPTS FOR 3
MIDDLE SCHOOL TEACHERS

This course offers the middle school teacher an opportunity to prepare and evaluate problem solving activities for classroom demonstration in the middle school using the microcomputer. BASIC programming will be studied as it relates to the specific examples being developed. The content and role of computer literacy units at this level will be presented. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors.

Prerequisite: Permission of the graduate advisor.

Y 1701 513 COMPUTER SCIENCE CONCEPTS FOR HIGH SCHOOL TEACHERS 3

This course is specifically designed to help high school mathematics teachers prepare to use the microcomputer as a tool in their classrooms. Topics include an introduction to computer literacy, elements of BASIC programming, the evaluation of commercial programs, the appropriate use of these programs and a survey of relevant professional literature. Minimal prior knowledge of BASIC is assumed. May not be taken for credit by Computer Science majors.
Prerequisite: Permission of the graduate advisor.

Y 1701 520 SET THEORY 3
Historical development, paradoxes, ordered sets, Schroder-Bernstein Theorem, Axiom of choice, transfinite induction, cardinal and ordinal numbers.
Prerequisite: Y 1701 222.

Y 1701 521, 522 REAL VARIABLES I, II 3 each
Real number system, Lebesgue measure and integration, differentiation, Fourier series, LP, metric, normed vector, Banach and Hilbert spaces. The sequences 521, 522, and 525, 526 are usually offered in alternate years.
Prerequisite: Y 1701 426 for 521; Y 1701 521 for 522.

Y 1701 525, 526 COMPLEX VARIABLES I, II 3 each
Integration and differentiation in the complex domain, Cauchy's Theorem and integral formula, Laurent expansion, residues, elements of conformal mapping, series and product representations. The sequences 525, 526, and 521, 522 are usually offered in alternate years.
Prerequisite: Y 1701 426 for 525; Y 1701 525 for 526.

Y 1701 531, 532 ABSTRACT ALGEBRA I, II 3 each
Basic algebraic structures including groups, rings, fields, modules and lattices. The sequences 531, 532 and 535, 536 are usually offered in alternate years.
Prerequisite: Y 1701 431 for 531; Y 1701 531 for 532.

Y 1701 535, 536 LINEAR ALGEBRA I, II 3 each
Vector spaces and linear transformations, including inner products, matrix representations, binary and quadratic forms, eigenvectors, canonical forms, and functions of matrices. The sequences 535, 536, and 531, 532 are usually offered in alternate years.
Prerequisite: Y 1701 335 for 535; Y 1701 535 for 536.

Y 1701 537 MATHEMATICAL LOGIC 3
Propositional and predicate calculus, model theory, Gödel's completeness theorems and decidability.
Prerequisite: Y 1701 425.

Y 1701 540 PROBABILITY 3
Sample spaces and events, combinatorial analysis, conditional probability and stochastic independence, random variables and probability distributions, expected value and variance, probability generating functions, continuous random variables.
Prerequisite: Y 1701 340.

Y 1701 541 APPLIED STATISTICS 3

Review of estimation and hypothesis testing for one sample and two sample problems; introduction to non-parametric statistics, and linear regression; fundamental principles of design, completely randomized design, randomized block design, latin square, and 2 factor designs.

Prerequisite: Y 1701 440 or 443.

Y 1701 542 INTRODUCTION TO STOCHASTIC PROCESSES 3

Generating functions, convolutions, recurrent events, random walk models, gambler's ruin problems, Markov chains and processes, time dependent stochastic processes, queuing theory and epidemic models.

Prerequisite: Y 1701 540.

Y 1701 543 STATISTICAL THEORY 3

Review of the normal, gamma and Chi-square distributions; sampling theory of the 't', and 'F' distributions, point estimation of one parameter, method of moments, minimum variance and unbiased estimators, maximum likelihood and interval estimation, testing hypotheses, Neyman-Pearson Lemma, likelihood ratio tests, power, bivariate normal distribution.

Prerequisite: Y 1701 440 or 443.

Y 1701 544 STATISTICAL COMPUTING 3

Computer systems for data analysis and data graphics, and intermediate level statistical methodology are investigated. Several statistical computing packages are utilized and evaluated.

Prerequisites: Y 1701 541 or 548, and Y 0701 183.

Y 1701 545 MULTIVARIATE ANALYSIS 3

Analysis of multiple response variables simultaneously; covariance and the multivariate normal distribution; MANOVA, discriminant functions, principle components and canonical correlations.

Prerequisites: Y 1701 541, 548.

Y 1701 546 NON-PARAMETRIC STATISTICS 3

Selected distribution-free tests and estimation techniques including sign, Kolmogorov-Smirnov, Wilcoxon signed rank, Mann-Whitney, Chi-square, rank correlation, Kendall's Tau, Kruskal-Wallis, Friedman, McNemar, and others.

Prerequisite: Y 1701 440.

Y 1701 547 DESIGN & ANALYSIS OF EXPERIMENTS 3

Fundamental principles of design; fixed, random and mixed models; designs with restricted randomization; split plot design; factorial experiments; confounding; fractional replication; experimental and sampling errors.

Prerequisites: Y 1701 541 or 548.

Y 1701 548 APPLIED REGRESSION ANALYSIS 3

Fitting equations to data; matrices, linear regression; correlation; analysis of residuals; multiple regression, polynomial regression; partial correlation; step-wise regression; regression and model building; regression applied to analysis of variance problems; introduction to nonlinear regression.

Prerequisite: Y 1701 440 or 443.

Y 1701 549 SAMPLING TECHNIQUES 3

Sampling and survey methodology; basic sampling theory; simple, stratified, random, cluster, systematic and area sampling. Sampling errors and estimation procedures.

Prerequisite: Y 1701 440 or 443.

Y 1701 551 TOPOLOGY 3

Basic point-set topology, topological spaces, homeomorphisms, compactness, connectedness, separation properties, uniformities, metrizability, introductory algebraic topology, homology groups and homotopy.

Prerequisite: Y 1701 425.

Y 1701 560 NUMERICAL ANALYSIS 3

Error analysis, interpolation and approximation theory, numerical solution of linear and nonlinear equations, numerical differentiation and integration, numerical solution of differential equations.

Prerequisites: Y 0701 507, Y 1701 335, 425.

Y 1701 564 ORDINARY DIFFERENTIAL EQUATIONS 3

Linear and nonlinear equations, Green's functions, power series solutions, autonomous systems, existence and uniqueness, singularities, Sturm-Liouville systems.

Prerequisites: Y 1701 335, 420, 425.

Y 1701 566 PARTIAL DIFFERENTIAL EQUATIONS 3

First order equations, separation of variables, series solutions, hyperbolic, parabolic and elliptic equations, characteristics, transform methods.

Prerequisites: Y 1701 335, 420, 426.

Y 1701 568 APPLIED MATHEMATICS I: CONTINUOUS 3

Formulation, manipulation and evaluation of mathematical models of continuous systems. Topics selected from: conservation principles and the classical equations of mathematical physics, applications of the qualitative and quantitative theory of ordinary and partial differential equations, optimization, calculus of variations, stability theory, stochastic models.

Prerequisites: Y 1701 335, 340, 420, 425.

Y 1701 569 APPLIED MATHEMATICS II: DISCRETE 3

Introduction to the basic ideas of discrete mathematics and its applications. Counting principles, permutations, combinations, algorithms, complexity, graphs, trees, searching and sorting, recurrence relations, generating functions, inclusion-exclusion, the pigeonhole principle, chromatic number, eulerian chains and paths, hamiltonian chains and paths, flows in networks, finite Markov chains.

Prerequisites: Y 1701 335, 340, 425.

Y 1701 570 ADMINISTRATION AND SUPERVISION OF MATHEMATICS 3

Problems of organization, administration and supervision in the mathematics program of the school. Functions, duties and qualifications of the supervisor investigated. Current problems and research findings.

Y 1701 571 CURRICULUM CONSTRUCTION 3
IN MATHEMATICS

Contemporary proposals for the mathematics of grades K through 12. Consideration is given to the problem of implementation of current recommendations. Examination is made of mathematical concepts underlying various programs.

Y 1701 572 TEACHING OF GENERAL MATHEMATICS 3

Mathematics programs for the non-college bound high school student. Investigation of contemporary literature. Basic characteristics and needs of non-academic students, preparation and use of resource materials, classroom teaching techniques and methods of motivation. Emphasis on development of suitable curricula for non-academic students.

Y 1701 573 MATHEMATICS MATERIALS FOR THE TEACHER 3
OF MATHEMATICS

Construction, adaptation and effective use of materials to improve the teaching of high school mathematics. Particular attention given to the overhead projector, aids, and models and to material for the mathematics laboratory and club activities.

Y 1701 574 PROBLEM ANALYSIS IN SECONDARY 3
MATHEMATICS

Psychology and techniques of problem-solving. Discovery and heuristic methods. Intuitive and inductive reasoning in the solution of non-routine problems from high school mathematics. Problem formulation and solution. Prerequisite: Y 1701 222.

Y 1701 575 SELECTED TOPICS IN MATHEMATICS 3
EDUCATION

Selection of topics associated with secondary and early college years of mathematics investigated from an advanced point of view. Topics selected to give the teacher a professionalized subject matter viewpoint of algebra, geometry, number theory, real and complex analysis, linear programming, game theory, probability and statistics.

Prerequisite: Y 1701 222.

Y 1701 579 APPLIED MATHEMATICS FOR THE SECONDARY 3
SCHOOLS

Applications of secondary and undergraduate mathematics and techniques for including these applications in the secondary curricula.

Prerequisites: More than one year of teaching experience, Y 1701 335, 340.

Y 1701 580 COMBINATORIAL MATHEMATICS 3

Arrangements and selections, binomial coefficients, Stirling numbers, generating functions, recurrence relations, inclusion-exclusion, Polya enumeration formula, combinatorial graph theory, combinatorial geometries.

Prerequisites: Y 1701 222, graduate advisor's permission.

Y 1701 581 GRAPH THEORY 3

Graphs, digraphs, and trees. Connectivity, separability, planarity, and colorability. Cliques, independent sets, matchings, flows and tours. Graphs as mathematical models; graph algorithms.

Prerequisites: Y 1701 222, 335, graduate advisor's permission.

Y 1701 584 SELECTED TOPICS IN OPERATIONS RESEARCH 3

An in-depth study of one or at most two topics in operations research, selected from linear programming and game theory, linear and nonlinear programming, queueing theory, inventory theory, simulation models.

Prerequisites: Y 1701 425, 440, 535; graduate advisor's permission.

Y 1701 590 SELECTED TOPICS IN ADVANCED MATHEMATICS 3

An in-depth study of a topic or topics selected from areas such as algebra, analysis, geometry, probability and statistics, and applied mathematics, with special emphasis upon recent developments in the field.

Y 1701 595 SEMINARS IN MATHEMATICS

1-4

Guided study of selected topics in major field of interest.

Prerequisite: Instructor's permission.

MUSIC

Chairperson: Dr. Barbara L. Wheeler

Graduate Advisor: Dr. Donald Mintz

Graduate study in Music offers three concentrations leading to the degree of Master of Arts: Performance, Theory/Composition and Music Education. Performance stresses applied music skills; Theory/Composition stresses creativity and the structure of music; Music Education stresses philosophical and practical approaches to the work of the music specialist in the American public school.

Although the study of music theory and of applied music is required of all graduate students, regardless of the concentration, each concentration provides for individualized course election in accordance with the background, needs and interests of the student.

Registration in applied music and theory is dependent on the placement examination administered by the Department; a student may not register for work in these areas until the examination has been taken and student is fully matriculated (see below under Admission Requirements).

ADMISSION REQUIREMENTS

In addition to the general College admission requirements stated in this bulletin (see Admission to Graduate Study), all students must present an undergraduate major in music (or the equivalent) with at least 40 semester hours of work in theory, music history and private study in a performance medium. Courses in music education may be included as part of this background.

All applicants must demonstrate familiarity with musical vocabulary and literature and proficiency in the following: performing primary, sight singing, aural and written theory, score analysis, listening analysis, and piano secondary skills (keyboard harmony, sight-reading of chorale literature and the like). Audition literature in the primary medium must represent significant solo material from a variety of eras, one of which must be contemporary. Applicants majoring in orchestral instruments must also present significant passages from orchestral literature.

Applicants to the Theory/Composition concentration must submit a portfolio of compositions and/or analytical studies for consideration by the theory faculty. Applicants to the Performance concentration must present an undergraduate major in the primary medium (including at least six semesters of study plus a graduation recital) or professional experience satisfactory to the Music Department. Applicants to the Music Education curriculum must present a certificate in the teaching of music. Those who have not earned such a certificate will be assigned appropriate prerequisite coursework.

Applied Music

Special regulations and procedures for the study of applied music are available from the Graduate Advisor. Tuition for the study of applied music is based on a special fee structure; information is available from the Registrar or the Department of Music.

Applied music may be taken for academic credit only after the student has passed the Department Audition and Placement Examination, and is fully matriculated, and may be studied only with MSC faculty. Every course number for private lessons requires the written permission of the Graduate Advisor, the instructor and the Department Chairperson. These signatures should be obtained by July 1 (for those desiring study in the fall) or by December 1 (for those studying in the spring); the availability of applied music study to students who have not received approval by these dates cannot be assured. Lessons are normally not given in the summer.

No more than 2 semester hours of credit may be awarded for work in a secondary medium. "Music electives" or "electives" in the student's work program will not normally be used for private study, although they may be so assigned in certain instances.

All students studying Applied Music are expected to take jury examinations in each semester of applied music study in which a full recital is not given. The grade for the last semester of the sequence will not be given until all recital requirements are completed.

Graduate students who are taking applied music may be required to perform in ensembles and are encouraged to do so even when not required. Specifics on such performance may be obtained from the Department Chairperson, graduate advisor, and/or ensemble conductor. In most cases, credits earned can count toward the degree.

Examinations

All candidates for the degree of Master of Arts in Music must pass the Department's Comprehensive Examination, given each year in October and March. Applications for this examination must be made in writing to the Graduate Advisor by September 1 for the October examination and by February 1 for the March examination.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN MUSIC

Note: The 32 semester hours noted for each concentration are a minimum. Undergraduate transcripts and audition results may require additional undergraduate work before graduate courses are begun, graduate work in excess of the minimum 32 semester hours, or both. Prerequisite undergraduate coursework may be followed by another audition for entrance to graduate study.

Concentration in Performance	Semester Hours
I. Required courses	18
A. Private lessons in a performing medium	12
B. Theory sequence 1016 511/512	6
II. Electives in Music History or Music Literature	8
III. Electives in Music	3
IV. Humanities electives (art, language, literature, history, philosophy; may be at 400 level)	3
V. Two recitals	0
A. Each to include at least 60 minutes of music exclusive of inter- missions or pauses	
B. One must be public; the other may be public or before a faculty jury. Procedures are available from the Graduate Advisor for Music.	
VI. Comprehensive examination	0
(Voice majors and accompanying majors will be given language tests as well. Details are available from the Graduate Advisor.)	

Note: Piano performance majors wishing to emphasize accompanying must arrange this with the graduate advisor.

Concentration in Theory/Composition	
I. Required courses	23
A. Applied Music, selected with approvals of instructor, Graduate Advisor and Department Chairperson from 1004 500, 501, 502, or 503	4
B. Theory sequence 1016 511, 512	6
C. Private study in composition (may be either creative or analytical work) 1016 518, 519	6
D. Seminar or independent study in Music History and research	3
E. Theory and composition	4
II. Humanities electives (art, language, literature, history, philosophy; may be at 400 level)	3
III. Music electives	8
IV. Composition and public performance of one of the larger forms for orchestra, vocal ensemble or chamber ensemble	0
V. Comprehensive examination	0

Concentration in Music Education

I.	Required courses	16
A.	Applied Music, selected with approval of instructor, Graduate Advisor and Department Chairperson from 1004 500, 501, 502, 503, or master classes	4
B.	Education or Psychology (may be at 400 level)	3
C.	Theory sequence 1016 511, 512	6
D.	Seminar in Music Education 0832 603	3
II.	Music Education	6
III.	Humanities electives (art, theater, literature, history, philosophy; may be 400 level)	6
IV.	Music electives	4
V.	Comprehensive examination	0

Certification

While some of the graduate courses listed in this catalog may be applied to certification as a teacher in the New Jersey public schools or as a Registered Music Therapist, the bulk of courses required by these certifications are available only at the undergraduate level. Certification is quite separate from a Master of Arts degree. Those interested should contact the Department of Music for an interview with the appropriate advisor prior to beginning the admission process.

MUSIC

Course Descriptions	Semester Hours
H 0832 500 WORKSHOP IN MUSIC EDUCATION	1-3
Changing conditions in the schools and new methods and materials for in-service and pre-service teachers. Lectures, demonstrations. Literature and materials selected according to the workshop focus.	
Prerequisite: Permission of Graduate Advisor or Coordinator of Music Education.	
H 0832 518 MICROCOMPUTERS IN MUSIC EDUCATION	3
A profile of a microcomputer music system, a history of microcomputers applications to music, a review of pre-college, collegiate, and professional music software, the BASIC's of music programming, a review of MIDI applications and MIDI keyboards, the use of interactive video disc in music, and the future of computer applications to music.	
H 0832 521 CREATIVE MOVEMENT AND DANCE	3
EXPERIENCES FOR CHILDREN	
Investigating the principles of movement in relationship to the principles of music as a format for designing dance and movement experiences which enhance the music learning process. A focus on strategies appropriate for the elementary music classroom. Active participation. Field component. Mid-term/final project.	
H 0832 527 PEDAGOGY OF THE VOICE	2
Principles, materials, and techniques for teaching voice to individuals for groups, in school or studio situation.	

- H 0832 578 KODALY SYSTEM IN MUSIC EDUCATION 3**
 Procedures for using Kodály materials and techniques in teaching music reading and comprehension.
 Prerequisite: Majors only, or instructor's permission.
- H 0832 579 PROBLEMS AND MATERIALS OF INSTRUMENTAL MUSIC 2**
 Evaluation of teaching experiences; problems of organizing instrumental music in school; literature for orchestra, band and small ensemble at various levels.
- H 0832 581 ORFF WORKSHOP I-CONCEPTS AND SKILLS 1-3**
 Study of basic philosophy of the Orff Schulwerk through movement, melodic and rhythmic training, improvisation and the use of relevant instruments and materials.
- H 0832 599 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4**
 Regularly listed courses pursued in greater depth, by arrangement with graduate advisor for music prior to registration. May be elected more than once during the program, but only one course per semester.
 Prerequisite: Permission of instructor and Department Chairperson.
- H 0832 600 INDEPENDENT STUDY IN MUSIC EDUCATION 1-4**
 Individual pursuit of a research topic culminating in a written document of length and scholarly integrity independent of any course structure. The student's area of study and a course advisor must be arranged prior to the semester in which the student registers for independent study. Work for this course may cover two semesters. Student registers for the one in which the work will be completed.
 Prerequisite: Permission of instructor and Department Chairperson.
- H 0832 603 SEMINAR IN MUSIC EDUCATION 3**
 Philosophies of music education and their application to the classroom. Investigation and application of techniques of research as they apply to music education.
- H 0832 604 SUPERVISION AND ADMINISTRATION OF SCHOOL MUSIC PROGRAMS 3**
 Functions and responsibilities of school music administration based on philosophies of music education, leadership styles and techniques of management and personnel relationships.
- H 1004 500, 501, 502, 503 APPLIED MUSIC I, II, III, IV 1 each**
 Fifteen half-hour lessons per semester, private instruction. Admission with permission of Graduate Advisor. Music fee.
- H 1004 504, 505, 506, 507 APPLIED MUSIC V, VI, VII, VIII 2 each**
 Fifteen one-hour lessons per semester, private instruction. Admission with permission of Graduate Advisor. Music fee.
- H 1004 508, 509, 510, 511 APPLIED MUSIC IX, X, XI, XII 3 each**
 Fifteen one-hour lessons per semester, private instruction. Admission with permission of Graduate Advisor. Music fee.

H 1004 512, 513, 514 APPLIED MUSIC XIII, XIV, XV 4 each
Fifteen one-hour lessons per semester, private instruction. Admission with permission of Graduate Advisor. Music fee.

H 1004 515, 516 APPLIED MUSIC XVI, XVII 6 each
Fifteen one-hour lessons per semester, private instruction. Recital required. Admission with permission of Graduate Advisor. Music fee.

H 1004 533, 534 ENSEMBLE: OPERA WORKSHOP 2
Rehearsal and performance of operatic repertoire in English or English translation. Admission by audition only. Auditions held in the semester prior to the one in which the workshop is offered. Open to pianists and singers. Can be repeated for credit.

H 1004 537 ENSEMBLE: ORCHESTRA 2
Rehearsal and performance of orchestral repertoire. Admission by audition only. Can be repeated for credit.

H 1004 550, 551, 552, 553 CHAMBER ENSEMBLE 1 each
PERFORMANCE I, II, III, IV
Participation in instrumental or vocal ensembles. Pre-registration may be required. One ensemble per course number. May be repeated for credit.
Prerequisite: Departmental permission.

H 1004 590 PIANO IMPROVISATION 2
Development of keyboard skills, and ear-training for clinical improvisation.
Prerequisite: H 1004 3104.

H 1004 599 INDEPENDENT STUDY IN PERFORMANCE 1-4
Regularly listed course work pursued in great depth, by permission of graduate advisor for music prior to registration. May be elected more than once during the program but only one course per semester.
Prerequisites: Permission of instructor and Department Chairperson.

H 1004 600 INDEPENDENT STUDY IN PERFORMANCE 4
Individual pursuit of a problem of performance or an aspect of musical repertoire, culminating in a performance and appropriate written work. Arranged with the graduate advisor for music and a course advisor appointed by him, prior to the independent study semester. May cover two semesters; student registers for the one in which the work will be completed.
Prerequisite: Permission of instructor and Department Chairperson.

H 1006 500 SELECTED TOPIC IN MUSIC I 1.5
Study of a specific area. May be taken a second time. 7 week course.

H 1006 501 SELECTED TOPIC IN MUSIC II 1.5
Study of a specific area. May be taken a second time. 7 week course.

H 1006 505 PERFORMANCE PRACTICE IN THE BAROQUE ERA 3
Study of problems of esthetics, notation, instrumentation, ornamentation and interpretation in vocal and instrumental music from the time of Caccini and Monteverdi through that of J. S. Bach and Handel.

H 1006 553 JAZZ**3**

Jazz as an art form, its impact on music and other contemporary arts; the sociological impact on American and world culture. Examination of specific performance techniques.

H 1006 554 DEVELOPMENT OF THE OPERA I**3**

Operas of the Baroque and Classical eras from Monteverdi through Beethoven; evolution of style, changing aesthetics, characterization and plot development and the cultural environment within which these developments have taken place.

H 1006 555 DEVELOPMENT OF THE OPERA II**3**

Continuation of H 1006 554, examining operatic styles and representative works of the Romantic and Modern eras.

H 1006 599 INDEPENDENT STUDY IN MUSIC HISTORY AND 1-4 LITERATURE

The undertaking of course work in one of the regularly listed catalogue courses of the department of Music (but not to include Applied Music) in depth greater than that normally pursued in the course. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Independent study may be elected more than once during the graduate program, but may apply to only one course per semester.

Prerequisite: Permission of instructor and Department Chairperson.

H 1006 600 INDEPENDENT STUDY IN MUSIC HISTORY AND 1-4 LITERATURE

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity independent of any course structure. May cover two semesters; student registers for the one in which the work will be completed.

Prerequisite: Permission of instructor and Department Chairperson.

H 1016 511 THEORETICAL AND AURAL SKILLS IN MUSIC I 3

Principles and practices of music construction, aural skills in manipulating pitch and rhythm, and related structural analysis. The total spectrum of music as a base, with specific techniques of pitch and rhythm approached from harmonic and contrapuntal standpoints. Primitive and simple folk idioms, modal counterpoint in two and three parts, diatonic tonal harmony in vocal and instrumental idioms, tonal counterpoint in two parts and free composition. Schenker analysis.

Prerequisite: Matriculation as music major or instructor's permission.

H 1016 512 THEORETICAL AND AURAL SKILLS IN MUSIC II 3

Continuation of H 1016 511. Complex non-western systems, modal and tonal imitative counterpoint in three and four parts, chromatic tonal harmony and expanded resources and techniques of the twentieth century.

Prerequisite: H 1016 511 or instructor's permission.

H 1016 518, 519 PRIVATE STUDY IN COMPOSITION I, II 3 each

Advanced work in musical composition in forms and genres determined jointly by teacher and student. Fifteen private lessons per semester.

Prerequisites: Departmental permission. Music fee.

H 1016 520, 521 PRIVATE STUDY IN COMPOSITION 3 each
III, IV

Advanced work in various genres and forms of instrumental and/or vocal music.

Prerequisites: Departmental permission. Music fee.

H 1016 599 INDEPENDENT STUDY IN THEORY/ 1-4
COMPOSITION

Individual work performed in connection with a regularly scheduled course but in greater depth than normally required by that course.

Prerequisite: Permission of instructor and Department Chairperson.

H 1016 600 INDEPENDENT STUDY IN THEORY/ 1-4
COMPOSITION

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. May cover two semesters; student registers for one in which the work will be completed.

Prerequisite: Permission of instructor and Department Chairperson.

H 1095 500 PSYCHOLOGY OF MUSIC 3

Integration of psychological foundations of music with emphasis on their relationships to music therapy. Study of theories of psychotherapy, emotional content of music, musical meaning, testing for musical abilities, music learning.

Prerequisites: Two undergraduate music courses and one course in psychology.

H 1095 510 GROUP MUSIC THERAPY EXPERIENCE 1.5

Use of creative media to express and explore feeling and issues in a supportive and productive environment. Specific content to be determined by members and therapist. Group members may apply what they have experienced to their own client groups. May be repeated for credit.

Prerequisite: Graduate status; permission of instructor.

H 1095 520 EXPERIMENTAL RESEARCH IN MUSIC 3

Methods of experimental research in music and music therapy. Knowledge of experimental research techniques assumed. Emphasis is on using these skills to design and execute research projects.

Prerequisite: Knowledge of research and statistics required.

H 1095 599 INDEPENDENT STUDY IN MUSIC THERAPY 1-3

Regularly listed courses pursued in greater depth, by arrangement with the instructor prior to registration. May be elected more than once during the program, but only one course per semester.

Prerequisite: Permission of instructor and Department Chairperson.

H 1095 600 INDEPENDENT STUDY IN MUSIC THERAPY 1-4

Individual pursuit of a research topic culminating in a written document of length and scholarly integrity. May cover two semesters; student registers for the one in which the work will be completed. Written permission required.

Prerequisite: Permission of instructor and Department Chairperson.

H 1095 601 THESIS 4

Research and develop a topic of interest. Thesis may be experimental, theoretical, historical, or descriptive research.

Prerequisite: Graduate matriculation.

**H 1095 620 MUSIC THERAPY SEMINAR I: SEVERELY/
PROFOUNDLY HANDICAPPED YOUTH 4**

Introduction to theoretical and applied skills in use of music therapy with severely profoundly handicapped youth. Developmental framework, applied to review of relevant literature, normal music development related to social, cognitive, and motor development, developmental assessment, music therapy goal planning, music therapy activity with this population, incorporation of special education techniques, music therapy evaluation. Practicum included.

**H 1095 621 MUSIC THERAPY SEMINAR II:
SEVERELY/PROFOUNDLY HANDICAPPED YOUTH 4**

Advanced theoretical and applied skills in use of music therapy with severely/profoundly handicapped youth. Developmental framework applied to review of relevant literature, normal musical development related to social, cognitive and motor development, developmental assessment, music therapy goal planning, music therapy activity with this population, incorporation of special education techniques, music therapy evaluation. Practicum included.

**H 1095 622 MUSIC THERAPY SEMINAR I: MILD/
MODERATELY IMPAIRED YOUTH 4**

Introduction to combination of theoretical and applied skills in the use of music therapy with mild/moderately impaired youth. Developmental framework applied to review of relevant literature; on musical development related to social, cognitive, and motor development, developmental assessment, and music therapy goal planning, music therapy activity with mild/moderately impaired populations, incorporation of special education techniques of music therapy evaluation. Practicum included.

**H 1095 623 MUSIC THERAPY SEMINAR II: MILD/
MODERATELY IMPAIRED YOUTH 4**

Advanced theoretical and applied skills in the use of music therapy with mild/moderately impaired youth. Developmental framework applied to review of relevant literature on musical development related to social, cognitive and motor development; developmental assessment, music therapy goal planning, music therapy activity with mild/moderately impaired populations, incorporation of special education techniques, music therapy evaluation. Practicum included.

**H 1095 624 MUSIC THERAPY SEMINAR I:
ADULT PSYCHIATRIC 4**

Introductory theoretical and applied skills in the use of music therapy with adult psychiatric clients. Review of relevant literature on adult psychiatric clients with emphasis on rationale for approaches and treatment. Study of group literature. Music therapy sessions with emphasis on observation of behavior. Practicum included.

**H 1095 625 MUSIC THERAPY SEMINAR II:
ADULT PSYCHIATRIC 4**

Advanced theoretical and applied skills in the use of music therapy with adult psychiatric clients. Review of relevant literature on adult psychiatric clients with emphasis on rationale for approaches and treatment. Study of group process literature. Music therapy sessions with emphasis on observation. Practicum included.

NEW JERSEY SCHOOL OF CONSERVATION

Director: Dr. John J. Kirk

The New Jersey School of Conservation is the Environmental Education Field Campus of Montclair State College and is the largest such facility in the western hemisphere. The School of Conservation is located fifty-seven miles from the main campus on a 240 acre tract located in the center of Stokes State Forest in Sussex County. Administratively, it is part of the School of Professional Studies.

The programs at the School of Conservation are designed to provide the students with a greater understanding and appreciation of the role natural areas play as part of a life support system. The resident programs provide environmental field experiences in the humanities, social studies, outdoor pursuits, and the natural physical sciences. Each academic year the school provides resident environmental education programs for over 9000 elementary/secondary school students, and 2000 teachers from 160 schools. There are also several field courses provided for graduate students. In addition, there are four weekend workshops held each academic year designed to train classroom teachers and youth leaders in environmental education curriculum development and field techniques for programs in environmental education. The workshops are held in September, February, April and June. Each workshop carries one semester hour of undergraduate or graduate credit. During the summer, the School offers several ten-day courses at the graduate level for teachers pursuing advanced degrees in environmental education and related fields.

Course Descriptions

Semester Hours

1 0843 460 PRACTICUM IN ENVIRONMENTAL EDUCATION 3

This course is designed to provide teachers and supervisors with a background of experience and knowledge which will enable them to organize and conduct conservation education programs in their own communities. Using an extensive library of conservation education materials, students formulate teaching unity, lists of teaching aids, and projects suitable for use in their own communities. Participating in conservation projects with the children in the demonstration camp furnishes a practical background for research and discussion.

1 0843 462 ADMINISTRATION AND SUPERVISION OF ENVIRONMENTAL FIELD STUDY 3

This course is designed to provide practical experience in the solution of problems in planning, supervising, and administering a field experience in Environmental Education. Among the phases considered are those of a historical perspective in the evolution and development of the movement combined with current practices. Discussions will include educational philosophy, selec-

tion and supervision of personnel, development and implementation of program activities, purchasing of equipment, organization of support staff, and financial management.

1 0843 495 WORKSHOP ON UTILIZING NATURAL ENVIRONMENTS 1

To provide classroom teachers in all disciplines with experiences in using the natural environment to supplement classroom experiences. Opportunity for teachers to increase their knowledge of as well as skills in the techniques of incorporating the physical, biological, and socio-cultural components of the environment in their curricula will be emphasized through the use of small group lecture sessions held in the natural environment being described. Students are provided with the opportunity of administering and experimenting in each of four such environments out of a choice ranging from 15 to 20 specific subject areas.

1 0843 496 FIELD STUDY IN HUMANITIES AND NATURAL SCIENCE 1

Provides teachers in varied and diversified subject areas with an understanding of how the humanities and sciences may be taught in natural environments for the purpose of developing an environmental sensitivity.

1 0843 497 FIELD STUDIES IN SOCIAL STUDIES AND OUTDOOR RECREATION 1

Provides an understanding of how outdoor pursuits and social studies may be taught using natural environments to develop environmental sensitivity. Does not meet resident requirement.

1 0843 499 ENVIRONMENTAL IMPACT OF RECREATION ON NATURAL AREAS 3

Students will examine the impact of recreation on natural areas in four of New Jersey's major ecosystems: upland forest, pinelands, salt marsh and barrier beach. On-site visits to a variety of natural areas will allow for comparison and contrast of heavily used sites with those which have been relatively undisturbed. Students will inventory the natural resources of each site and will use their inventories to develop "Recreation Impact Statements." First-hand knowledge of the four ecosystems will be gained by camping in or near each area.

1 0843 500 CURRICULUM DEVELOPMENT IN ENVIRONMENTAL EDUCATION 3

The historical, philosophical and conceptual aspects of developing a K-12 environmental education curriculum. The focus is on the four major curriculum areas: humanities, social studies, science and outdoor pursuits, with proposed activities for the classroom, school grounds, community and natural areas, intended to enhance the student's awareness of environmental problems and their possible solutions.

1 0843 501 OUTDOOR TEACHING SITES FOR ENVIRONMENTAL EDUCATION 3

This field-oriented course will include a working definition of outdoor environmental teaching sites as they relate to current developments in environmental education. Also incorporated, through lecture, discussion, and field activities

will be pertinent information on the philosophy, design, construction, and use of outdoor environmental teaching sites, with special emphasis on sites which can be developed on land areas adjacent to schools.

1 0843 502 AMERICAN HERITAGE SKILLS 3

This course will focus on the home life style for the American colonies from the 1600's to the 1800's. Various skills such as spinning, working with wool, natural dyeing, candle making, rug making, soap making, quilting and food processing will be demonstrated and students will have the opportunity to develop their proficiency in these areas. The colonial living skills will be integrated into a general overview of the two hundred year time period under consideration, rather than as isolated elements.

1 0843 505 SOCIETY AND THE NATURAL ENVIRONMENT 3

This field science course will focus upon interrelationships of a forest ecosystem. Soil, water, plants, and animals found in a northeastern hardwood forest will be examined in detail and their relationship to humankind will be discussed and reviewed.

1 0843 601 ADVANCED ENVIRONMENTAL EDUCATION SEMINAR 3

The seminar is geared toward advanced students who want to examine, in depth, a selected topic related to current developments in environmental education. The seminar will choose a particular issue facing environmental education, develop a method for studying that issue, and produce a publishable work (e.g. curriculum materials or academic paper) related to the topic.

Prerequisites: 1 0843 601, graduate status required.

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Chairperson: Dr. Joan Schleede

Graduate Advisor: Dr. Ree K. Arnold

The graduate program in Physical Education provides students the opportunity to pursue advanced study in the general field of physical education, and to develop competency in an area of concentration. Concentrations are offered in Teaching and Administration of Physical Education, Coaching and Sports Administration, and Exercise Sciences. The program is designed to develop and enhance competencies necessary for teaching in school programs, coaching of athletics, conducting individualized exercise programs, administration of phys-

ical education and/or athletics, and administration of specialized exercise programs in a non-school setting.

Both theoretical and practical approaches are emphasized throughout the program. In addition to course work in an area of concentration, all students complete a core of required courses including philosophical and sociological foundations of sport and physical education. Analytical skills are developed through a sequence of courses culminating in a research project. A written comprehensive examination is required of all degree candidates.

Facilities for research in motor learning, biomechanics and exercise physiology are provided in the Human Performance Laboratory. These facilities are available for classwork and independent research by students and faculty.

The Department of Physical Education, Recreation and Leisure Studies is a member of the Panzer School Council and is administered by the School of Professional Studies. The Master of Arts degree with a major in Physical Education has been offered at Montclair State College since 1964.

ADMISSION REQUIREMENTS

All applicants must meet the basic admission requirements for graduate study at Montclair State College. Applicants for the concentrations in Teaching and Administration of Physical Education and Coaching and Sports Administration must have a bachelor's degree with a major in Physical Education. For the concentration in Exercise Sciences, a bachelor's degree with a major in Physical Education or a closely related area is preferred; evidence of coursework in anatomy and physiology, exercise physiology, and nutrition is required. Students lacking adequate preparation may be required to take additional coursework at the undergraduate level as a prerequisite to matriculation in the master's program.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PHYSICAL EDUCATION

	Semester Hours
I. Required Courses*	
0835 575 Philosophical and Sociological Foundations of Sport and Physical Education	3
0835 579 Advanced Measurement and Evaluation in Physical Education	3
0835 503 Research Methods in Physical Education	3
0835 603 Research Project	4
(Full year course, register in Fall only)	
*Course 579 must be completed before 503 and both of the above courses must be completed before 603. In special cases 579 and 503 may be taken concurrently with permission of the instructor of 503.	
II. Concentrations	
In addition to the required courses above, students are required to com- plete 15 semester hours in one of the following concentrations.	

A. Teaching and Administration of Physical Education		
0835	577	Administration and Supervision of Physical Education 3
0835	530	Individualized Programs in Physical Education for the Handicapped 3
0835	557	Perceptual-Motor Development in Physical Education 3
0835	560	Physical Education Programs in a School Setting 3
0835	556	Advanced Motor Learning 3
B. Coaching and Sports Administration		
0835	508	Administration and Supervision of Athletics and Coaching 3
0835	554	Orientation to Sports Medicine 3
0835	555	Biomechanical Analysis of Movement and Sport Skills 3
0835	556	Advanced Motor Learning 3
0835	559	Applied Sport Psychology 3
C. Exercise Sciences		
0835	540	Applied Exercise Physiology 3
0835	541	Exercise Prescription and Programming ... 3
0835	542	Applied Cardiac Rehabilitation 3
0835	544	Administration of Specialized Exercise Programs 3
0835	548	Practicum in Individualized Exercise Programs *3-6
*3 S.H. required; additional S.H. considered as elective credits, with approval of advisor.		

III. Free Electives

Six semester hours may be selected from the Physical Education offerings or from any discipline outside the field of physical education, provided courses prerequisites are satisfied.

IV. Written Comprehensive Examination

All students are required to write a comprehensive examination during the last year of their work. The examination is given in March and October. Application forms are available in the Office of Graduate Studies and must be filed six weeks before the examination in the office of the Graduate Advisor in Physical Education. The examination consists of three parts covering research skills, knowledge in the concentration area and general aspects of Physical Education.

SUMMARY

Required Courses	13 S.H.
Concentration	15 S.H.
Free Electives	6 S.H.
Minimum	34 S.H.

Note: The following 0835 courses are general electives within the program:

- 492 Selected Topics in Physical Education
- 516 Comparative Physical Education

- 531 Practicum in Physical Education for the Handicapped
- 550 Literature and Trends in Physical Education
- 552 Seminar in Current Problems in Athletics
- 553 Neurological Approach to Motor Learning and Performance

A list of suggested electives from other departments is available from the graduate advisor.

PHYSICAL EDUCATION, RECREATION AND LEISURE STUDIES

Course Descriptions	Semester Hours
8 0835 503 RESEARCH METHODS IN PHYSICAL EDUCATION An introduction to the theory and methods of historical, descriptive and experimental methods of research in physical education. Topics include the nature of research, interpretation of data, design of research and formulation of a research proposal. Prerequisite: 8 0835 579 Advanced Measurement and Evaluation in Physical Education.	3
8 0835 508 ADMINISTRATION AND SUPERVISION OF ATHLETICS AND COACHING Underlying principles and desirable practices from the point of view of the administrator and supervisor, and of the person supervised and subjected to administrative policies. Interviewing, observation, conducting conferences and administrative considerations.	3
8 0835 516 COMPARATIVE PHYSICAL EDUCATION A comparative study of physical education to provide insight and greater understanding of programs in other countries. Such factors as the role of physical education, the similarities and differences in teacher preparation and the school curriculum between selected countries will be examined and compared in detail.	3
8 0835 530 INDIVIDUALIZED PROGRAMS IN PHYSICAL EDUCATION FOR THE HANDICAPPED This course will offer a pragmatic approach to the planning and implementation of programs in appropriate environments to meet specific needs of handicapped persons.	3
8 0835 531 PRACTICUM IN PHYSICAL EDUCATION FOR THE HANDICAPPED Practical experience with mentally retarded, emotionally disturbed, physically handicapped or sensory handicapped persons. Requirement is for 120 hours (including conference time). Prerequisite: 8 0835 557 and instructor's permission.	3
8 0835 540 APPLIED EXERCISE PHYSIOLOGY This course provides an analysis of current research and theory regarding the short and long-term effects of exercise on the human organism. The student will learn to apply physiological principles to the development of exercise programs.	3

8 0835 541 EXERCISE PRESCRIPTION AND PLANNING 3

This course provides the student the opportunity to develop competencies in assessment, prescription, monitoring and evaluation within the framework of exercise programming.

Prerequisite: 8 0835 540 Applied Exercise Physiology or permission of instructor.

8 0835 542 APPLIED CARDIAC REHABILITATION 3

This course provides the student current information concerning principles and programs of cardiac rehabilitation in order to apply this knowledge to the conduct of such programs in a variety of settings.

Prerequisites: 8 0835 375 Foundations and Practices in Cardiac Rehabilitation or permission of instructor.

8 0835 544 ADMINISTRATION OF SPECIALIZED EXERCISE PROGRAMS 3

This course provides information concerning principles of administration, staffing, facilities, equipment, and finance to prepare the student to administer specialized exercise programs in a variety of settings.

8 0835 548 PRACTICUM IN INDIVIDUALIZED EXERCISE PROGRAMS 3-6

This course provides the student the opportunity for practical experience in the application of individualized exercise prescriptions for asymptomatic and/or symptomatic individuals in a variety of non-school settings.

Prerequisites: Completion of required courses within area of specialization in exercise sciences (12 sh) or permission of instructor.

8 0835 550 SURVEY OF LITERATURE AND TRENDS IN PHYSICAL EDUCATION 3

Comprehensive survey of books, periodicals and other teaching materials in the field of physical education; outstanding authors and current leaders in physical education are studied.

8 0835 552 SEMINAR IN CURRENT PROBLEMS IN ATHLETICS 3

The organization, planning and administration of intramural and interscholastic sports programs for men and women. Program development, scheduling, promotion and conduct of the program and personnel selection. Other persistent problems identified by the students will be discussed as will trends in such areas as sports media, coaching and officiating.

8 0835 553 A NEUROLOGICAL APPROACH TO MOTOR LEARNING AND PERFORMANCE 3

The psychology of motor behavior, a neuropsychological approach, integrating neuropsychological and behavioral information as a beginning toward understanding motor behavior.

8 0835 554 ORIENTATION IN SPORTS MEDICINE 3

New techniques, materials, modalities and problems related to the prevention and care of athletic injuries; current developments in the field; new conditioning concepts and activities for both the athlete and non-athlete.

Prerequisites: Courses in kinesiology, physiology of exercise and prevention and care of athletic injuries, or instructor's permission.

8 0835 555 BIOMECHANICAL ANALYSIS OF MOVEMENT 3
AND SPORT SKILLS

The examination of internal and external forces that act upon a human body and the effects produced by these forces during the performance of movement and sport skills. Application of techniques for measuring and diagrammatically representing these forces.

8 0835 556 ADVANCED MOTOR LEARNING 3

Psychological principles and research related to physical activity and educational program situations. Continued research and psychological evidence utilized to improve physical education methodology.

8 0835 557 PERCEPTUAL MOTOR DEVELOPMENT IN 3
PHYSICAL EDUCATION

Current theories concerning the interrelationships of perceptual development and sensory-motor activity. Implications for school physical education programs.

8 0835 559 APPLIED SPORT PSYCHOLOGY 3

This course provides an in-depth analysis of the theories and techniques of sport psychology. Student will learn how to apply these skills to the teaching and coaching situations in order to optimize the performance of students and athletes.

8 0835 560 PHYSICAL EDUCATION PROGRAMS IN 3
A SCHOOL SETTING

Current trends in activities programming and scheduling in physical education for grades K-12. Opportunities provided for students to work in their particular area of programming interest.

Prerequisite: A methods course in physical education.

8 0835 575 PHILOSOPHICAL AND SOCIOLOGICAL 3
FOUNDATIONS OF SPORT AND PHYSICAL
EDUCATION

The historical development of modern physical education programs. The sociological factors affecting behavior in modern society applied to teaching and coaching situations.

Prerequisite: A course in the history and principles of physical education.

8 0835 577 ADMINISTRATION AND SUPERVISION IN 3
PHYSICAL EDUCATION

The role and responsibilities of the administrator in physical education. Theories and techniques of administration and management. The nature, purposes and techniques of supervision of teachers.

8 0835 579 ADVANCED MEASUREMENT AND EVALUATION 3
IN PHYSICAL EDUCATION

An overview of descriptive and inferential statistics, both parametric and non-parametric. Additional topics include analysis and evaluation of tests in physical education, grading procedures, and the construction and administration of a test battery.

An experience in the pursuit of study of topics which may be outside the scope of regular curricular offerings or may be an extension of a course or courses. A student may complete a maximum of three semester hours credit in independent study. Completion and approval of independent study application form required prior to registration.

8 0835 603 RESEARCH PROJECT

4

Guidance is provided in developing and conducting a research project in physical education. Each student is required to conduct an investigation of a specific problem and to submit a written report of the completed project to the faculty of the department of physical education. Full year course. Register fall only. Prerequisite: 8 0835 503.

PSYCHOLOGY

Chairperson: Dr. Roland Siiter

Graduate Advisors: Dr. Paul Locher, Dr. Joan Silverstein

There are two entirely separate Master of Arts degrees offered within this department. The MA in Psychology (with a track available in Industrial Psychology) is described immediately below. For the MA in Educational Psychology, see following pages.

MASTER OF ARTS DEGREE IN PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Master of Arts in Psychology is designed primarily as an intermediate degree. This program prepares the student for advanced studies in many psychological fields such as developmental, experimental, learning, personality and counseling, school, and social psychology.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Psychology Test of the Graduate Record Examination.
3. The Miller Analogies Test.
4. Approval by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN PSYCHOLOGY

	Semester Hours
I. Required Courses	16
2001 510 Methods of Research	3
2001 520 Advanced Psychology I	3
2001 521 Advanced Psychology II	3
2001 550 Quantitative and Statistical Methods	3
2001 600 Thesis	4
II. Elective Courses	12
To be selected with the approval of the Graduate Advisor/Program Director.	
III. Free Electives	6
IV. Comprehensive Examination: written examination precedes acceptance of thesis outline and an oral examination at completion of thesis.	
V. Department Colloquium: presentation of proposed theses and current research. Graduate students and faculty invited.	

Minimum: 34 semester hours

CONCENTRATION IN INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Industrial/Organizational Psychology Program is designed to prepare persons for work in business and industry as professional specialists in the application of psychological knowledge and techniques to the functioning of individuals in organizations. The program draws from many areas of psychology especially testing, statistics, experimental design, learning, motivation, and interpersonal relations.

REQUIREMENTS FOR THE INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY CONCENTRATION

	Semester Hours
I. Required Courses	15
2001 510 Research Methods in Psychology	3
2001 520 Advanced Psychology I	3
2001 550 Quantitative and Statistical Methods	3
2001 559 Seminar in Industrial/Organizational Psychology	3
2001 578 Psychological Tests and Measurements	3
II. Specialization	9
2001 554 Psychology of Business and Industry	3
2001 557 Theory and Application in Consumer Psychology	3

2001	558	Personnel Psychology	3
2001	570	Psychology of Human Performance	3
2001	571	Organizational Psychology	3
III.		Thesis	4
2001	600	Thesis	4
IV.		Electives: Psychology	Maximum of 6
2001	521	Advanced Psychology II	3
2001	552	General Social Psychology	3
2001	553	Urban Psychology	3
2001	563	Theories of Learning	3
2001	568	Psychology of Group Dynamics	3
2001	581	Motivation	3
2001	582	Behavior Modification	3
V.		Electives: Other Departments	6
		To be selected with the approval of the Graduate Advisor.	
		Minimum: 34 semester hours in Thesis option or 36 semester hours without Thesis option.	

MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

Graduate Advisor: Dr. Paul Locher

The Master of Arts in Educational Psychology aims to increase the student's knowledge of the application of psychological theory to educational practice.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College. In addition, the applicant must have 12 undergraduate credits in psychology and be approved by the departmental committee.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN EDUCATIONAL PSYCHOLOGY

		Semester Hours
I.	Required Courses	15
2001	510 Research Methods in Psychology	3
2001	560 Advanced Educational Psychology	3
2001	561 Developmental Psychology	3
2001	578 Psychological Tests and Measurements	3
2001	660 Current Topics in Educational Psychology	3
II.	Electives: Psychology	15
	To be selected with the approval of the Graduate Advisor.	
	Possible Areas of Emphasis and Relevant Courses	
	Learning	
2001	503 Language and Communication	3
2001	549 Psychology of the Adult Learner	3
2001	550 Quantitative and Statistical Methods	3

2001	563	Theories of Learning	3
2001	570	The Psychology of Human Performance	3
2001	573	Physiological Psychology	3
2001	581	Motivation	3
2001	582	Behavior Modification	3
2001	583	Sensation and Perception	3
Child-Developmental			
2001	503	Language and Communication	3
2001	555	Psychological Aspects of Poverty	3
2001	563	Theories of Learning	3
2001	564	Psychology and Education of Physically and Mentally Handicapped Children	3
2001	565	Psychology and Education of Socially and Emotionally Handicapped Children	3
2001	580	Personality	3
2001	585	Psychoanalytic Theory	3
Clinical			
2001	542	Workshop in Psychology—Human Sexuality	3
2001	567	Abnormal Psychology	3
2001	568	Psychology of Group Dynamics	3
2001	580	Personality	3
2001	582	Behavior Modification	3
2001	585	Psychoanalytic Theory	3
2001	593	Clinical Interviewing	3
2001	645	Sexual Function and Dysfunction	3
2001	670	Introduction to Psychotherapy	3
Social-Personality			
2001	538	Ethnopsychology	3
2001	547	Woman: A Cross-Cultural Perspective	3
2001	552	General Social Psychology	3
2001	553	Urban Psychology	3
2001	555	Psychological Aspects of Poverty	3
2001	568	Psychology of Group Dynamics	3
2001	580	Personality	3
2001	581	Motivation	3
2001	585	Psychoanalytic Theory	3
III.	Electives: Other Departments		6
To be selected with the approval of the Graduate Advisor.			
IV.	Thesis (Elective)		
V.	Comprehensive Examination		
Minimum: 34 semester hours with Thesis option or 36 semester hours without Thesis option. Students who elect the Thesis option will take one less course in each Elective category (II and III).			

School Psychologist Certification (N.J. State Certificate)

Graduate Advisor: Dr. Joan Silverstein

The School Psychologist Certification Program is designed to meet the need for school psychologists by offering an integrated sequence of courses and super-

vised school, clinical, and community experiences. In addition, if all appropriate requirements are met, the student in this certification program will receive either an MA in Psychology or an MA in Educational Psychology. See the latest information.

ADMISSION REQUIREMENTS

All applicants must meet the admission requirements for graduate study at Montclair State College.

In addition, applicants must meet the following departmental requirements.

1. 12 undergraduate credits in psychology including a course in statistics and a laboratory course in experimental psychology.
2. The Advanced Graduate Record Examination in Psychology or Education.
3. The Miller Analogies Test.
4. Four letters of recommendation.
5. Approval by the departmental committee. Final application date January 31.

REQUIREMENTS FOR THE SCHOOL PSYCHOLOGIST CERTIFICATION PROGRAM

	Semester Hours
I. Educational Foundations (Select 4 courses)	12
0821 521 Contemporary Educational Thought	3
2001 538 Ethnopsychology	3
2001 553 Urban Psychology	3
2001 555 Psychological Aspects of Poverty	3
2001 560 Advanced Educational Psychology	3
2001 660 Current Topics in Educational Psychology	3
2002 535 Ethnology I	3
2208 565 Sociology of Youth	3
II. Education of the Handicapped	6
2001 564 Psychology and Education of the Physically and Mentally Handicapped	3
2001 565 Psychology and Education of the Socially and Emotionally Handicapped	3
III. Testing and Clinical Techniques	24
2001 510 Research Methods in Psychology	3
2001 550 Quantitative and Statistical Methods	3
*2001 574 Individual Intelligence Testing	3
*2001 575 Projective Techniques I	3
*2001 576 Projective Techniques II	3
2001 578 Psychological Tests and Measurements	3
*2001 590 Diagnostic Case Studies	3
2001 593 Clinical Interviewing	3
*2001 661 Practicum in School Psychology	3
*2001 662 School Psychologist Externship	3

IV.	Personality and Behavioral Development	12
2001	561 Developmental Psychology	3
2001	563 Theories of Learning	3
2001	567 Abnormal Psychology	3
2001	573 Physiological Psychology	3
2001	580 Personality	3
2001	582 Behavior Modification	3

V. Electives: Select courses to balance the program, with permission of graduate advisor.

*Admission to the course is subject to approval of graduate coordinator.

Minimum: 60 semester hours

PSYCHOLOGY

Course Descriptions	Semester Hours
T 2001 503 LANGUAGE AND COMMUNICATION	3
Influence of psychology, linguistics and biology on the learning and use of language. Psycholinguistics, language and thought, language disorders, development of communication, dialect differences.	
T 2001 510 RESEARCH METHODS IN PSYCHOLOGY	3
Non-laboratory introduction to correlation and experimental methods of research in psychology applied to practical issues. Required of students matriculated in the educational and general psychology programs.	
T 2001 520 ADVANCED PSYCHOLOGY I	3
Learning and motivation (first half term), sensation and perception (second half term). Open to matriculated candidates in psychology programs only. Must be taken during the first year of the program.	
T 2001 521 ADVANCED PSYCHOLOGY II	3
Personality and abnormal psychology (first half term), social psychology (second half term). Open to matriculated candidates in psychology programs only, or with permission of instructor.	
T 2001 538 ETHNOPSYCHOLOGY	3
Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition.	
T 2001 540 TEACHING AND REMEDIATION TECHNIQUES WITH BEHAVIORALLY DISTURBED CHILDREN	3
Teaching and remediation of basic skills with behaviorally disturbed students; methods and materials in reading, mathematics, and language arts.	
T 2001 541 ADAPTIVE CURRICULUM AND PROGRAM PLANNING FOR BEHAVIORALLY DISTURBED CHILDREN	3
Modifying the school curriculum, program planning, and behavioral management options for the behaviorally disturbed students.	

T 2001 542 WORKSHOP IN PSYCHOLOGY-HUMAN SEXUALITY 3

Psychologists, health educators, religious leaders, sociologists, biologists, physicians and media specialists lecture and participate in group discussions: sex education in the home, marriage and family relations, genetics, birth control, sex and religion, developmental psychology and sex role, sex and the self-concept.

Prerequisite: Instructor's permission.

T 2001 545 SEMINAR IN BEHAVIORAL DISTURBANCES OF CHILDREN I 3

Survey and analysis of educational strategies and models for behaviorally disturbed students, e.g. psycho-educational, behavioral, psychodynamics. Day to day student-teacher adjustments and behavior management. Integrated with concurrent practicum. Open only to matriculated students.

T 2001 547 WOMAN: A CROSS-CULTURAL PERSPECTIVE 3

The physiological and psychological aspects of women studied cross-culturally and their implications for today's society will be the focus of this course. Morphological and psychological developments from conception to death in various cultures; inferences about the roles of women in our society will be made.

T 2001 548 SEX EDUCATION IN COMMUNITIES AND AGENCIES 3

Techniques for working the communities and agencies in setting up courses and offering materials for community programs in sex education.

T 2001 549 PSYCHOLOGY OF THE ADULT LEARNER 3

An overview of the developmental processes underlying adult behavior. Understanding problems of the adult learner, overcoming learning difficulties, motivation and other factors affecting learning and counseling procedures.

T 2001 550 QUANTITATIVE AND STATISTICAL METHODS 3

Principles and techniques of data analysis and experimental design in psychology, estimation of parameters, and hypothesis testing. Open only to matriculated students.

Prerequisite: Instructor's permission.

T 2001 552 GENERAL SOCIAL PSYCHOLOGY 3

Theory, methodology and research findings. Biological basis of social behavior, socialization, attitudes development and change, value systems, group processes and conflict.

Prerequisite: One course in psychology.

T 2001 553 URBAN PSYCHOLOGY 3

Theoretical and empirical literature on cities and those who live in and near them. Interaction of individual psychological factors and urban structures. Problems and issues related to crowding and density, poverty, housing, urban planning, neighborhoods, race relations.

Prerequisite: One course in psychology.

T 2001 554 PSYCHOLOGY OF BUSINESS AND INDUSTRY 3

Application of psychological findings to problems encountered in business and the professions.

- T 2001 555 PSYCHOLOGICAL ASPECTS-POVERTY 3**
Relationships between individual and group psychological factors and poverty as a major domestic issue. Critical approaches to psychological theories of poverty.
- T 2001 556 ENVIRONMENTAL PSYCHOLOGY 3**
Interaction of the physical environment with human behavior. Population density and crowding; environmental perception, historic environmental attitudes; architecture and behavior; unusual environments; man and the natural world.
- T 2001 557 THEORY AND APPLICATION IN CONSUMER PSYCHOLOGY 3**
The theory and assessment of consumer behaviors utilizing fundamental psychological principles will be emphasized. A field research project will be undertaken.
Prerequisite: Course in statistics.
- T 2001 558 PERSONNEL PSYCHOLOGY 3**
This course focuses on the application of psychological methods and knowledge to the personnel functions of industry. Emphasis is on major relevant social, economic and legislative changes affecting employment including civil rights, the women's movement, fairness in employment testing.
- T 2001 559 SEMINAR IN INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3**
This course covers the most recent advances, issues and problems in the field through the use of technical literature, legislation, judicial decisions, research techniques and consulting practice to provide the student with knowledge, techniques and skills for application. Each student presents a technical article, participates in a debate and reviews a topic in a term paper.
Prerequisite: T 2001 554, 555, 557.
- T 2001 560 ADVANCED EDUCATIONAL PSYCHOLOGY 3**
Focus on the learner and the learning process in school situations. Motivation, acquisition of skills, ideas and attitudes, technological and other innovations in teaching and learning and evaluation of teacher-learning.
- T 2001 561 DEVELOPMENTAL PSYCHOLOGY 3**
Theoretical issues and research findings on psychological processes from prenatal life through adulthood.
- T 2001 562 DYNAMICS OF HUMAN BEHAVIOR 3**
Relationship of social forces to mental health. Environmental factors which contribute towards behavioral and learning pathologies.
- T 2001 563 THEORIES OF LEARNING 3**
Review of current learning theory and research and the implications for education.
Prerequisite: Two courses in psychology or permission of graduate advisor.
- T 2001 564 PSYCHOLOGY AND EDUCATION OF PHYSICALLY AND MENTALLY HANDICAPPED CHILDREN 3**
Current practices and problems in the education of children with physical and mental handicaps. Designed for teachers, counselors, supervisors and adminis-

trators who work with such children or who wish to prepare for school and community leadership in developing facilities.

Prerequisite: T 2001 561.

T 2001 565 PSYCHOLOGY AND EDUCATION OF SOCIALLY AND EMOTIONALLY HANDICAPPED CHILDREN 3

Practice and problems in education of socially and emotionally handicapped children.

Prerequisite: T 2001 561.

T 2001 567 ABNORMAL PSYCHOLOGY 3

Models and selected research in psychopathology, physical illness, psycho-seomatic and somatopsychic disorders, neurosis, psychosis, environmental factors in relation to organic factors.

Prerequisite: T 2001 580.

T 2001 568 PSYCHOLOGY OF GROUP DYNAMICS 3

Theories of group dynamics and illustrative application to industrial, marital, political, interracial and professional life; personal participation by the student in a group interactive process. Open only to matriculated students.

T 2001 570 THE PSYCHOLOGY OF HUMAN PERFORMANCE 3

Application of psychological techniques to the problems encountered at the interface between human beings and modern technology. Workplace design, computer systems, transportation systems, man in space, control and display design.

T 2001 571 ORGANIZATIONAL PSYCHOLOGY 3

This course closely examines the psychological aspects of organizational functioning. Areas to be covered include motivation, job satisfaction, leadership, organizational development, and organizational change. All areas will be dealt with from both a theoretical and a practical point of view.

T 2001 572 PROFESSIONAL PRACTICUM IN SCHOOL PSYCHOLOGY ISSUES 3

Provides an orientation to critical issues in the field of school psychology including roles and functions, the culture of schools and strategies for change, and legal and ethical issues. This course utilizes guest speakers, group discussions, and a series of planned school experiences to provide a conceptual framework for the study of school psychology. Approved certification candidacy in school psychology program required.

T 2001 573 PHYSIOLOGICAL PSYCHOLOGY 3

Investigation of physiological correlates of behavior with emphasis on a sensory apparatus as well as the major neuroendocrine integrating relationships in the more complex behaviors.

Prerequisites: One course in experimental psychology, one in biology and instructor's permission.

T 2001 574 INDIVIDUAL INTELLIGENCE TESTING 3

Administration, scoring and interpretation of individual intelligence tests. Student is required to use the Stanford-Binet scale, the Wechsler Intelligence Scale For Children, and the Wechsler Adult Intelligence Scale.

Prerequisite: Approved certification candidacy in the school psychology program.

- T 2001 575 PROJECTIVE TECHNIQUES I 3**
 Basic instruments of projective testing, particularly the Rorschach and thematic apperception test, from the standpoints of basic research and the mechanics of administration and scoring.
 Prerequisite: Approved certification candidacy in the school psychology program.
- T 2001 576 PROJECTIVE TECHNIQUES II 3**
 Moves from the theoretical to the practical application of projective tests. Student required to administer, score and analyze individual cases. Major emphasis on the Rorschach and thematic apperception test.
 Prerequisite: T 2001 575 and approved certification candidacy in the school psychology program.
- T 2001 578 PSYCHOLOGICAL TESTS AND MEASUREMENTS 3**
 Survey of theory, construction and application of psychological tests. Open only to matriculated students.
 Prerequisites: T 2001 510, 550, or instructor's permission.
- T 2001 580 PERSONALITY 3**
 Major theories and clinical and experimental findings.
 Prerequisites: T 2001 521, 561 or instructor's permission.
- T 2001 581 MOTIVATION 3**
 Nature and development of motives and their role in behavior.
 Prerequisite: T 2001 520 or instructor's permission.
- T 2001 582 BEHAVIOR MODIFICATION 3**
 Experimental findings, design of experiments, and practice in the application of learning principles to changing behavior. Student will perform some experiments.
 Prerequisite: T 2001 563.
- T 2001 583 SENSATION AND PERCEPTION 3**
 Sensory and perceptual processes. Includes: visual, auditory and other stimuli, psychophysics and the development of perceptual abilities and the effects of learning motivation and set on perceptual processes.
 Prerequisite: T 2001 520 or instructor's permission.
- T 2001 585 PSYCHOANALYTIC THEORY 3**
 A developmental analysis of the original Freudian concepts, and their use in psychoanalysis. The course will also include later evolutionary developments by noted analysts, including such theorists as Horney, Sullivan, Reik, Adler, Jung, Kris, and others.
 Prerequisites: T 2001 567, 580, instructor's permission.
- T 2001 590 DIAGNOSTIC CASE STUDIES 3**
 Learning to use diagnostic material and to write up diagnostic findings. The unique value of various diagnostic tools and the criteria for selection in relation to the present school problem.
 Prerequisites: Approved candidacy in the school psychology certification program, T 2001 574, 575, 576.

T 2001 592 SPECIAL DIAGNOSTIC TECHNIQUES 3

Designed for students who are already competent in basic individual testing techniques. Specialized tests and techniques; evaluation of handicapped children.

Prerequisites: T 2001 574, 575, instructor's permission, and approved candidacy in the school psychology certification program.

T 2001 593 CLINICAL INTERVIEWING 3

Clinical interviewing under rigid supervision as an essential part of a practicum experience. Diagnostic features of interviewing and inter-personal relationships between the psychologist and the client.

Prerequisites: Permission of the graduate advisor and instructor.

T 2001 600 THESIS I 4

Individual research under faculty direction. Student presents thesis proposal at a department colloquium and takes an oral examination upon completion of the thesis.

Prerequisite: Permission of thesis advisor.

T 2001 645 SEXUAL FUNCTION AND DYSFUNCTION 3

Seminar in current trends and practices in sexual therapy. Historical material and research studies in the area of sexual function and dysfunction—from Freud to Masters and Johnson.

Prerequisites: T 2001 542, 567, 641.

T 2001 659 SPECIAL TOPICS SEMINAR IN PSYCHOLOGY 3

Provides an in-depth view of important theoretical and methodological issues in various areas of psychology. Designed to permit faculty with particular interests and expertise to provide students with a comprehensive analysis of a contemporary issue (or related issues) in psychology. Seminar discussions will aim toward identification and clarification of theoretical issues in a particular field and at the integration of these issues.

Prerequisites: Completion of 15 or more credits in one's program; or instructor's permission.

T 2001 660 CURRENT TOPICS IN EDUCATIONAL PSYCHOLOGY 3

Opportunity to investigate and apply the techniques of research in the psychology field.

Prerequisites: T 2001 510, 560 and matriculation in psychology.

T 2001 661 PRACTICUM IN SCHOOL PSYCHOLOGY 3

Supervised experience in assessment counseling and consultation procedures. Designed to increase competency in psychological techniques required in school setting.

Prerequisites: Approved certification candidacy in school psychology program and permission of graduate advisor.

T 2001 662 SCHOOL PSYCHOLOGY EXTERNSHIP 3

Students serve as apprentice psychologists in cooperating school districts or agencies. A fully certified school psychologist, employed in the cooperating district, or an appropriate clinician and the college supervisor make periodic visits and conduct a series of seminars to be scheduled on campus.

Prerequisites: Approved certification candidacy in school psychology program and permission of graduate advisor.

- T 2001 663 INDEPENDENT STUDY 1-3**
 Individual project under supervision of a professor in the department.
 Prerequisite: Instructor's permission.
- T 2001 664 PRACTICUM IN TEACHING BEHAVIORALLY 3**
DISTURBED CHILDREN I
 Experience in teaching seriously and moderately emotionally disturbed children. Open only to matriculated majors in the program for the teaching of emotionally disturbed children.
 Prerequisite: Permission of the program coordinator.
- T 2001 665 PRACTICUM IN TEACHING BEHAVIORALLY 3**
DISTURBED CHILDREN II
 Continues the experience described in T 2001 664. Open only to matriculated majors in the program for the teaching of emotionally disturbed children who have the program coordinator's approval.
- T 2001 670 INTRODUCTION TO PSYCHOTHERAPY 3**
 Theories, research and practices in individual and group psychotherapy; introduction to approaches to treatment of emotional maladjustment and behavioral pathology.
 Prerequisite: Permission of instructor.

SOCIAL SCIENCES

MASTER OF ARTS DEGREE REQUIREMENTS

The Master of Arts program in Social Sciences is designed to accomplish four main objectives:

1. To provide the opportunity for students to acquire advanced knowledge in one of the major areas of the social sciences and history.
2. To acquaint the student with the interrelatedness of these various fields as well as their relationship to other disciplines.
3. To familiarize students with the particular methodologies and specialized problems of his or her field.
4. To provide students with the background to do creative and independent work both during and after their graduate careers.

Specifically, the program offers advanced study in anthropology, economics, geography, history, sociology, and urban studies. Degree candidates do a major portion of their work and prepare for a final comprehensive examination in one of these concentrations. The program also provides flexibility for interdisciplinary study in certain areas and is designed mainly for students who wish to work toward the degree on a part-time basis.

While teachers seeking to keep up-to-date in their fields or preparing for specialized secondary school subjects still constitute an important segment of the graduate student body, degrees in the social sciences and history are increasingly being pursued by (a) individuals seeking to change fields or profes-

sions, (b) individuals planning career advancement, and (c) individuals returning to the academic world after a hiatus of some time. A significant number of graduates of the program have pursued doctoral work successfully at major universities. The program's flexibility has also been utilized to enhance careers in business, government, politics, community service agencies, museum work, urban planning, etc. Student constituencies are able to achieve their respective purposes by following one of the tracks or specializations within the program.

Recognition of changing demands acts as a spur to further developments in the program. Thus some revision in the structure of the program's concentrations is currently being planned, and applied tracks in anthropology and sociology have been projected. Interested candidates should contact the chairperson of the appropriate department for information.

ADMISSION REQUIREMENTS

In addition to the general requirements for admission to the graduate program at Montclair State, candidates must present an undergraduate record showing a total of at least 30 semester hours in the social sciences and/or history. For candidates with weak undergraduate preparation in the field of concentration, prerequisite courses, not for graduate credit, may be required.

ANTHROPOLOGY CONCENTRATION

Graduate Advisor: Dr. Bertha Quintana

	Semester Hours
I. Required Course	3
*2202 535 Ethnology	3
*Anthropology elective may be substituted for candidates with proper equivalent course experience.	
II. Anthropology Electives	12-15
2202 530 Anthropology of Institutional Life	3
2202 532 Anthropology of Cities	3
2202 534 Transmission of Culture	3
2202 536 Cultural Diversity	3
2202 537 Responding to Cultural Change	3
2202 538 Ethnopsychology	3
2202 539 Prehistoric North America	3
2202 540 Social Anthropology and History	3
2202 541 Culture and Thought	3
2202 547 Women: A Cross-Cultural Perspective	3
2202 601 Independent Anthropological Research	3
III. Related Social/Behavioral Science and/or History Electives (Outside concentration area)	6-9
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examination	2
2202 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600, Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

Modified Concentration

(Recommended for students with undergraduate majors or minors in anthropology, or equivalent interdisciplinary backgrounds.)

With the approval of the graduate advisor, qualified students may develop modified concentrations in applied anthropology, cross-cultural studies, or ethnopsychology. Independent Anthropological Research (2202 601) and Reading Seminar and Comprehensive Examination (2202 603) are required courses for students in this category, together with courses appropriate to student needs and interests.

A maximum of 9 semester hours of senior-graduate courses may be elected with permission of the graduate advisor. Course descriptions may be found in the current undergraduate catalog: e.g.,

- 2202 406 Anthropology of Aging and the Aged
- 2202 411 Archaeological Field Methods
- 2202 412 Cultural Ecology
- 2202 413 Medical Anthropology
- 2202 420 Apprenticeship in Anthropology

ECONOMICS CONCENTRATION

Graduate Advisor: Dr. Harold D. Flint

The Master of Arts in Social Science: Economics Concentration provides a study of economic theory within a programmatic framework that emphasizes the importance and interdisciplinary nature of the social sciences. Where appropriate, business oriented applications are developed; however, the primary purpose of the program is to develop a knowledge of economics which enhances the student's understanding of the formulation, evaluation and implementation of public decision making. Although an undergraduate major in Economics is not a prerequisite, candidates must present an undergraduate record with at least 30 semester hours in the social sciences and/or history. Candidates who do not meet minimum requirements may be required to enroll in certain prerequisite courses which do not provide graduate credit. Candidates interested in Economics as an area of concentration should contact the graduate advisor or the chairperson of the department for information.

Semester Hours

- I. Required for all but undergraduate Economics majors:
 - 2204 501 Economics Analysis 3
- II. Economics Electives 12-15
 - 2204 502 Financial Institutions and Monetary Policy 3
 - 2204 503 Economic Problems of the Third World 3
 - 2204 505 Aggregate Economics 3
 - 2204 508 Economics of Public Management 3
 - 2204 510 Urban Economics: Problems and Policies 3
 - 2204 533 Corporations and International Financial Markets 3
 - 2204 541 Foundations of Contemporary Economic Thought 3
 - 2204 542 Economic Fluctuations and Forecasting 3

2204	543	United States in the World Economy	3
2204	544	Government and Business	3
2204	545	Economics of Labor	3
III.		Related Social/Behavioral Science and/or History	6-9
IV.		Free Electives	6
V.		Reading Seminar and Comprehensive Examinations	2
2204	603	Independent study in preparation for written examination given in March and October.	

Minimum: 32 semester hours

GEOGRAPHY CONCENTRATION

Graduate Advisor: Dr. Harbans Singh

It is highly recommended that candidates for the concentration in geography have an undergraduate major or minor in Geography or its equivalent from an accredited college or university. Candidates without this background may be required to make up deficiencies in their undergraduate programs.

		Semester Hours
I.	Required Courses	6
	2206 520 Landscapes in Transition	3
	2206 521 Research Methods	3
II.	Geography Electives	9-12
	2206 501 Air Resource Management	3
	2206 502 Problems in Economic Geography	3
	2206 503 Culture Regions	3
	2206 504 Pro-Seminar	3
	2206 505 Human Environment	3
	2206 509 Water Resource Management	3
	2206 510 Urban Systems Analysis	3
	2206 511 Urban and Regional Planning	3
	2206 512 Transportation Analysis and Planning	3
	2206 550 Urban Studies and Policy Analysis	3
	2206 551 The Metropolitan Economy	3
	2206 603 Reading Seminar in Geography and Urban Studies	2
	2206 610 Urban Studies Seminar	3

Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested or acceptable courses are as follows:

	2206 413 Geography of the Middle East	3
	2206 452 Geohydrology	3
	2206 409 Urbanization in World Perspective	3
	2206 423 Cultural and Resource Utilization	3
III.	Related Social/Behavioral Science and/or History Electives	6-9
IV.	Free Electives (outside the area of concentration)	6

V. Reading Seminar and Comprehensive

Examination	2
2206 603 Independent study in preparation for written examination given in March and October. Candidates may register for departmental thesis (600) 4 semester hours in lieu of comprehensive examination.	

Minimum: 32 semester hours

HISTORY CONCENTRATION

Graduate Advisor: Dr. Richard J. Barker

	Semester Hours
I Required Courses	3
2205 501 New Interpretations in History	3
or	
2205 502 History and the New Social Studies	3
II. History Electives	12-15
2205 501 New Interpretations in History	3
2205 502 History and the New Social Studies	3
2205 511 Seminar in American Colonial History	3
2205 512 The American Revolution, 1763-87	3
2205 513 Problems of the New Nation, 1789-1828	3
2205 514 Crisis American Nationalism, 1828-1876	3
2205 517 Age of Franklin D. Roosevelt	3
2205 518 Urban History: National Trends in N.J. Cities	3
2205 519 America Since 1945	3
2205 521 Civil War and Revolution in Chinese History	3
2205 522 Revolutionary Russia, 1905-21	3
2205 523 History of Soviet Diplomacy	3
2205 524 History of American Business Leaders	3
2205 525 History of American Labor, 1870-1970	3
2205 526 The Industrialization of America, 1865-1900	3
2205 529 Europe of the Dictators, 1919-39	3
2205 532 Modernization in Japanese Cultural History	3
2205 540 Europe as a World Civilization	3
2205 541 Asian Civilization-Comparative Cultural History	3
III. Related Social/Behavioral Science Electives	6-9
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examination	2
2205 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 semester hours) in lieu of the comprehensive examination.	

Minimum: 32 semester hours

SOCIOLOGY CONCENTRATION*

Graduate Advisor: Dr. Barbara Chasin

	Semester Hours
I. Required Courses	6
2208 560 Sociological Theory	3
2208 568 Social Research Methods I	3
II. Sociology Electives	12
2208 500 Introduction to Applied Sociology	3
2208 556 Computer Applications in Sociology	3
2208 559 Sociology of Deviance	3
2208 562 Social Change	3
2208 563 Self and Society	3
2208 564 Social Planning	3
2208 565 Sociology of Youth	3
2208 566 The Metropolitan Community	3
2208 567 Power and Social Stratification	3
2208 569 Seminar: Sociological Research Methods II	3
2208 570 Independent Projects	3
2208 571 Seminar: Sociological Inquiry	3
2208 572 Selected Problems in Sociology	3
2208 574 Sociology of Ethnic Relations	3
2208 576 The Family as an Institution	3
2208 577 Sociology of Poverty in the U.S.	3
2208 578 Community Resources and Aging	3
2208 581 Sociological Perspectives on Health & Medicine	3
2208 582 The Sociology of Health Care Systems	3
2208 584 The Sociology of the Criminal Justice System	3
2208 585 The Sociology of Police	3
2208 587 The Sociology of Juvenile Delinquency	3
2208 588 Aging Individual in an Aging Society	3
2208 589 Social Epidemiology	3
2208 590 Sociology of the Lifespan	3
2208 596 Internship in Applied Sociology: Aging	3
2208 597 Internship in Applied Sociology: Health and Illness	3
2208 598 Internship in Applied Sociology: Social Research and Policy	3
III. Related Social/Behavioral Science and/or History Electives	6
IV. Free Electives	6
V. Reading Seminar and Comprehensive Examination	2
2208 603 Independent study in preparation for written examination given in March and October. In special cases, candidates may register for Departmental 600 Thesis (4 semester hours) in lieu of the comprehensive examination.	
Minimum:	32 semester hours

**Some courses listed here are part of new programmatic offerings. Interested students should contact the Sociology graduate advisor or chairperson regard-*

ing when specific courses will become available. Introduction to Applied Sociology (U 2208 500) will be a required course for these new programs.

URBAN STUDIES CONCENTRATION

Graduate Advisor: Dr. Harbans Singh

		Semester Hours
I.	Required Courses	9
	2206 550 Urban Studies and Policy Analysis	3
	2206 551 The Metropolitan Economy	3
	*2206 610 Urban Studies Seminar	3
	*To be taken only after the candidate has completed 2206 550, 551 and 9 semester hours of Urban Studies electives.	
II.	Urban Studies Electives	9
	2206 504 Pro-Seminar	3
	2206 510 Urban Systems Analysis	3
	2206 511 Urban and Regional Planning	3
	2206 512 Transportation Analysis and Planning	3
	*2206 521 Research Methods	3
	2202 532 Anthropology of Cities	3
	2204 508 Economics of Public Management	3
	2204 510 Urban Economies: Problems and Policies	3
	2205 518 Urban History: National Trends in North Jersey Cities	3
	2207 501 Public Administration and Public Policy	3
	2001 553 Urban Psychology	3
	2201 555 Psychological Aspects of Poverty	3
	2208 566 The Metropolitan Community	3
	2208 567 Power and Social Stratification	3
	2208 573 Sociology of the City Sub-Areas	3
	2208 574 Sociology of Cultural and Ethnic Groups	3
	2208 577 Sociology of Poverty in the U.S.	3
	2208 579 Community Resources and Youth	3
	*Recommended	
	Candidates for the Master of Arts degree may earn 6 semester hours of credit in 400 level or senior year undergraduate courses. Suggested courses are the following:	
	2206 427 Housing in America	3
	2206 462 People and Cities: Comparative Urban Studies	3
	2206 411 Problems in Urban Geography	3
	2206 428 Planning for People	3
III.	Related Social/Behavioral Sciences and/or History Electives	6
IV.	Free Electives	6

SOCIAL SCIENCES

Anthropology Course Descriptions

Semester Hours

J 2202 530 ANTHROPOLOGY OF INSTITUTIONAL LIFE 3

An analysis of the relationship between culture, society, personality and institutional life. Emphasis is placed on the relationship between formal organizations and public interests.

J 2202 535 ETHNOLOGY 3

A graduate introduction to the "science of peoples, their cultures and life histories as groups." Ethnographic and ethnological methodology and theory. Primarily for graduate students with limited or no previous course work in cultural anthropology.

J 2202 536 CULTURAL DIVERSITY 3

Descriptive, historical and theoretical anthropological works provide the basis for studying likenesses and differences among folk and urban cultures, their historic development, and interrelationships between differing aspects of culture.

J 2202 537 RESPONDING TO CULTURE CHANGE 3

Emphasis on the dynamics of cultural preservation, transmission, and change. Factors and conditions which retard and/or stimulate culture change are considered in transcultural perspective. A unit of study is devoted to the psycho-cultural consequences of rapid change.

J 2202 538 ETHNOPSCHOLOGY 3

Interdisciplinary course on convergencies of theoretical and methodological concepts from anthropology and psychology. Personality in culture, cultural influences on cognition, personality under stress, cultural psychiatry, and creativity in culture. Interdisciplinary field work.

Prerequisite: Previous course work in anthropology or psychology.

J 2202 541 CULTURE AND THOUGHT 3

How different peoples organize and use their cultures; data from formal ethnography, semantic analysis, ethno-science and componential analysis for purposes of studying culture and building culture theories.

Prerequisite: Previous course work in ethnology, ethnopsychology or linguistics.

J 2202 547 WOMAN; CROSS-CULTURAL PERSPECTIVE 3

Physiological and psychological aspects of women studied cross-culturally, and their implications for contemporary society. Morphological and psychological development from conception to death in various cultures; inferences about the roles of women in American society.

J 2202 601 INDEPENDENT ANTHROPOLOGICAL RESEARCH 3

Under faculty guidance, the student works independently throughout the academic year on a delimited problem in anthropology. Course includes presentation of proposal, execution and write-up of research, and oral defense of findings.

Prerequisites: Permission of the graduate advisor and instructor.

J 2202 603 READING SEMINAR IN ANTHROPOLOGY 2
Required of all M.A. candidates concentrating in anthropology. Directed independent study in preparation for 3 hour comprehensive examination.

Economics Course Descriptions

C 2204 501 ECONOMIC ANALYSIS 3

The resource allocation and distribution of income implications of a market-oriented economy operating under various degrees of competition. Also analyzed are the determinants of consumer and market demand and the theoretical cost structure of firms.

C 2204 502 FINANCIAL INSTITUTIONS AND MONETARY POLICY 3

This course analyzes the structure and functioning of the monetary and financial system. The component parts and the system as a unit will be examined as they interrelate to affect the economy. Topics include commercial banking system, federal reserve system, financial markets, financial intermediaries, determination of the level and structure of interest rates, and contemporary problems, both theoretical and applied, in the area of monetary policy.

Prerequisite: C 2204 501.

C 2204 503 ECONOMIC PROBLEMS OF THE THIRD WORLD 3

A survey of major economic problems of the Third World, examination of the economic structure of developing countries and of federal theories of economic development, critical evaluation of various policy alternatives for their development, analysis of possible economic relationships between First and Second Worlds with the Third World.

Prerequisite: C 2204 501.

C 2204 505 AGGREGATE ECONOMICS 3

This course develops contemporary macroeconomic theories to explain aggregate employment, national income and the levels of interest rates and prices. Along with developing various models, the course examines current research and reviews the economy's recent macroeconomic performance.

Prerequisite: C 2204 501.

C 2204 508 ECONOMICS OF PUBLIC MANAGEMENT 3

Application of capital theory in the decision-making processes of government, and alternative approaches to government project evaluation and important practical issues encountered by state development planners. Specific applications of project analysis in the area of physical and human resource management such as water resource management, public health, and education.

Prerequisite: C 2204 501.

C 2204 510 URBAN ECONOMICS: PROBLEMS AND POLICY 3

The location of economic activities, the growth of cities and the origins of some urban problems in a market economy. Also discussed are the problems of location and congestion due to agglomeration and non-market phenomena.

Prerequisite: C 2204 501.

C 2204 533 CORPORATIONS AND INTERNATIONAL FINANCIAL MARKETS 3

The course will discuss the economic theories and problems which confront business institutions when dealing in international financial markets. It will analyze the various market instruments and how a corporation may use them. Prerequisite: C 2204 501.

C 2204 541 FOUNDATIONS OF CONTEMPORARY ECONOMIC THOUGHT 3

Antecedents of current economic theory, economics as a cumulative science, the works of the creative economists, and the uses and limitations of economic theory.

Prerequisite: C 2204 501.

C 2204 542 ECONOMIC FLUCTUATIONS AND FORECASTING 3

Theories to account for variations in business activity, macroeconomic models and other forecasting approaches, economic fluctuations in the United States, proposals for reducing fluctuations, Harrod Domar model and other modern theories of growth.

Prerequisites: C 2204 505.

C 2204 543 UNITED STATES AND THE WORLD ECONOMY 3

Principles of international finance, international monetary relations and international trade. Discussion of contemporary international monetary and trade problems and policies. Discussion of the economic aspects of current American foreign policy.

Prerequisite: C 2204 505.

C 2204 544 GOVERNMENT AND BUSINESS 3

The evolution of government influences on the functioning of the American economy; the causes and consequences of government regulation and control, and the importance of economic analysis in the foundation of public policies.

Prerequisites: C 2204 501.

C 2204 545 ECONOMICS OF LABOR 3

Principal trends in the industrial and occupational distribution of labor; current developments in labor-management relations in both private and public sectors; market trends and institutional factors that determine employment, wage rates, fringe benefits, and industrial peace.

Prerequisites: C 2204 501.

C 2204 603 READING IN SEMINAR IN ECONOMICS 2

Required of all masters degree candidates concentrating in Economics. This seminar entails directed independent study in preparation for a 3-hour written comprehensive examination.

Geography and Urban Studies Course Descriptions

N 2206 501 AIR RESOURCE MANAGEMENT 3

Spatial distribution of energy in the atmosphere treated in terms of national factors and man's induced changes (atmospheric pollution). Incoming sun energy as modified by man is traced through the atmosphere, vegetation, soil and water.

- N 2206 502 PROBLEMS IN ECONOMIC GEOGRAPHY 3**
 Research course examines spatial patterns of economic activities. Stress on current methodology and research interests.
- N 2206 503 CULTURE REGIONS 3**
 Seminar investigation of man's role in changing the face of the earth. Emphasis on spatial perception, and cultural attitudes towards space and the diffusion process.
- N 2206 504 PRO-SEMINAR 3**
 Research on selected problems which will vary according to instructor.
- N 2206 505 HUMAN ENVIRONMENT 3**
 Discussion of population in relation to the physical environment; objectives and skills of numerous culture groups will be examined to clarify existing regional variations in the man-land relationship.
- N 2206 509 WATER RESOURCE MANAGEMENT 3**
 The spatial patterns of the water resource both as surface water and ground water. Processes affecting availability and techniques of estimation are stressed.
 Prerequisite: N 4951 501.
- N 2206 510 URBAN SYSTEMS ANALYSIS 3**
 The complexity of the city and its modification by means of planning the systems approach to urban study, the ecological base, different models of urban systems, the impact of technological change, the hierarchy of urban regions; planning in the existing systems and creating new ones.
- N 2206 511 URBAN AND REGIONAL PLANNING 3**
 Urban and regional planning, analyzing planning goals at an integral level, and rooted in the need to anticipate social and economic change in space and how it needs to be organized to enhance the functions of the physical plant and conserve the habitat twenty and more years into the future. Data gathering and analysis, graphic presentation and model building are an integral part of the course.
- N 2206 512 TRANSPORTATION ANALYSIS AND PLANNING 3**
 Transportation analysis addresses such diverse subject matter as technological change in the transportation media, transportation and energy, degree of accessibility, passenger trip generation by kind, commodity flows, transportation and spatial order, and transportation planning as part of urban and regional planning.
- N 2206 520 LANDSCAPES IN TRANSITION 3**
 The field in historical perspective, with emphasis upon contemporary trends; philosophical roots and quest for theory. Analyzes theory and methods of application and their relationships in order to understand the role of applied in contrast to theoretical geography.
- N 2206 521 RESEARCH METHODS 3**
 Advanced research techniques, beginning with census reports, government surveys and reports from other agencies. Field research both cultural and physical, mapping techniques, and the design of appropriate scale and data transforma-

tion to familiarize the range of possibilities and the need for careful choice of data and maps. Computer applications in geographic problem solving.

N 2206 539 ENVIRONMENTAL NOISE HAZARDS AND CONTROLS 3

The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed. Stress will be placed on current methods of noise control and hearing conservation.

Prerequisite: For non-majors.

N 2206 550 URBAN STUDIES AND POLICY ANALYSIS 3

Interdisciplinary study of urbanization, the processes that produce and shape urban agglomerations. From this holistic perspective, the interaction of different social, cultural, economic, political and planning forces are examined for their impact upon the resulting system.

N 2206 551 THE METROPOLITAN ECONOMY 3

The spacing, location and size of cities, the role of transportation in city rhythms and intra and inner city relationships. Urban design planning juxtaposed with multi-faceted decision making processes for an examination of their relative position in the management of urban systems.

N 2206 603 READING SEMINAR IN GEOGRAPHY AND URBAN STUDIES 2

Required of all master's degree candidates concentrating in geography and urban studies, this semester entails directed independent study in preparation for a 3-hour written comprehensive examination.

N 2206 610 URBAN STUDIES SEMINAR 3

This seminar is designed to analyze the contents and the concepts to formulate a holistic view of the city. Benchmark papers and research frontiers will be investigated.

History Course Descriptions

P 2205 501 NEW INTERPRETATIONS IN HISTORY 3

Designed to help teachers keep up to date in the fields of American, European and Non-Western history. Major trends and developments in the study of history in the light of recent representative examples of historical research and interpretation.

Prerequisite: Open only to history candidates or students with social studies certification.

P 2205 511 SEMINAR IN AMERICAN COLONIAL HISTORY 3

This course will examine the forces and conditions of the colonial period which contributed to the shaping of the characteristics of American political and economic institutions, social practices and ideas, intellectual outlooks, and attitudes.

Prerequisite: Open only to history candidates or students with social studies certification, or permission of the instructor.

P 2205 512 AMERICAN REVOLUTION 1763-1787 3

The causes and course of the American revolution from both British and American viewpoints, including analysis of economic, political, social and intellectual factors.

P 2205 513 PROBLEMS-NEW NATION 1789-1828 3

The growth of political institutions under the Constitution, the gaining of respect as a new country in the family of nations, the establishment of economic credit, and the rise of American nationalism.

P 2205 514 THE CRISIS OF AMERICAN NATIONALISM, 1828-1876 3

The crisis in American nationalism from Jackson through reconstruction as the country's Constitution, party system, and social structure contend with the disruptive effects of territorial expansion, the factory system, slavery and the new immigration.

P 2205 517 AGE OF FRANKLIN D. ROOSEVELT 3

An opportunity to study that part of recent American history centering about Franklin Delano Roosevelt. While concentrating on domestic aspects of American life, attention is given also to foreign affairs and their impact on the daily lives of Americans.

Prerequisite: Open only to history or social science candidates or students with social studies certification.

P 2205 519 AMERICA SINCE 1945 3

This course studies the transformation of the Roosevelt coalition and its liberal policies since 1945 as they faced the challenge of the cold war abroad, and growing class and racial upheaval at home.

P 2205 522 REVOLUTIONARY RUSSIA 1905-1921 3

The historical forces of 19th and 20th century Russia which led to the Bolshevik revolution of November, 1917 and to the consolidation of Soviet power by 1921.

P 2205 523 HISTORY OF SOVIET DIPLOMACY 3

Changes in the ideological determinants of Soviet diplomacy contrasted with fluctuations in internal and external political and economic policies. Contributions of leading Soviet statesmen to diplomatic history.

P 2205 525 HISTORY OF AMERICAN LABOR 1870-1970 3

Study of the American worker from the period after the Civil War to the present, with concentration on social, political and economic behavior as well as the Union movement.

P 2205 526 THE INDUSTRIALIZATION OF AMERICA, 1865-1900 3

The causes and nature of the industrialization of the American economy after the Civil War; factors responsible for rapid economic growth; the impact of changing productive techniques on American institutions and human welfare.

Prerequisite: Open only to history of social science candidates or students with social studies certification.

P 2205 529 EUROPE OF THE DICTATORS, 1919-1939 3

The political, social, economic and intellectual developments in the major states of Western Europe during the interwar period, with emphasis on varieties of Fascism.

P 2205 603 READING SEMINAR IN HISTORY 2

Required for all master's degree candidates concentrating in History. This seminar entails directed independent study in preparation for a three-hour written comprehensive examination in the area of concentration. Candidates should register for the seminar in the semester preceding the examination date. Registration examination Fall, March; Spring, October.

Political Science Course Descriptions

S 2207 501 PUBLIC ADMINISTRATION AND PUBLIC POLICY 3

Literature and developments in the field of public administration from Woodrow Wilson to the new public administration movement. Techniques of administrative management, budgetary and personnel administration, and analysis of the federal bureaucracy in the policy making process.

Prerequisite: An undergraduate course in administration or instructor's permission.

S 2207 512 ORIGIN AND DEVELOPMENT OF THE U.S. CONSTITUTION 3

The roots and influences that determine the nation's basic political document. The role of the Marshall Court in shaping the constitution.

Prerequisite: A course in American government or instructor's permission.

S 2207 523 POLITICS OF DEVELOPING AREAS 3

Introduction to the field of political stability and change in the world's developing areas. Theoretical and empirical factors that have contributed to the contemporary and continuing search for political modernization in the emerging nation-states of Africa, Asia and Latin America.

Prerequisite: Course in politics of development and modernization or instructor's permission.

S 2207 524 THE THIRD WORLD IN THE INTERNATIONAL SYSTEM 3

The position and role of African and Asian nation-states in contemporary international relations, mutual relations; their encounters with the major powers; involvement in general international organization and diplomatic activity and domestic political and economic factors that affect or underlie their international interactions.

Prerequisite: A course in government and politics of Africa, or government and politics of South Asia or instructor's permission.

S 2207 525 THEORY IN INTERNATIONAL RELATIONS 3

A study of the nation-state system and those forces affecting its interactions. Special attention is given to recent theories and approaches in the study and understanding of international politics today.

S 2207 554 SEMINAR IN AMERICAN POLITICAL THOUGHT 3
The various interpretations of American political thought; nature and limitations of the liberal ethos underlying the American political and constitutional system; the controversy over the "bias" of American pluralism.
Prerequisite: A course in American political thought or instructor's permission.

S 2207 603 READING SEMINAR IN POLITICAL SCIENCE 3
Required of all master's degree candidates concentrating in political science, this seminar entails directed independent study in preparation for a three-hour written comprehensive examination.

Sociology Course Descriptions

U 2208 500 INTRODUCTION TO APPLIED SOCIOLOGY 3
This course will examine the ways in which sociology is applied in various non-academic settings. Special attention will be given to the impact of sociology upon the policy-making process. The political, ethical and moral dilemmas which confront the applied sociologist will also be explored.

U 2208 556 COMPUTER APPLICATIONS IN SOCIOLOGY 3
One of the primary uses of computers in sociology is to summarize, describe, and analyze data sets using statistical packages. This course provides hands-on experience in computer data analysis of a variety of sociological data sets. Major techniques to be illustrated include cleaning data, constructing scales, and conducting univariate and multivariate analyses.
Prerequisite: An undergraduate course in statistics.

U 2208 560 SOCIOLOGICAL THEORY 3
The practical and philosophical methods of the major sociological theorists are investigated and evaluated.

U 2208 562 SOCIAL CHANGE 3
The dynamics of contemporary societies: sacred and secular movements, technological and cultural change, protest and revolution, and 20th century nationalism. The effect of change considered in relation to individuals, groups, institutions and total societies.

U 2208 563 SELF AND SOCIETY 3
The relationships between the human individual and his social environment; the formation, maintenance and transformation of self or identity; the structure and processes of small groups; symbolic communication; role theory, cognitive dissonance and inter-group conflict.

U 2208 564 SOCIAL PLANNING 3
The many elements and considerations in planning for a community, a state or a nation. The social context of planning; projective techniques; budgets, master plans, development programs and area proposals. The human, the economic, the ecological. Students will be expected to undertake a social planning project.

U 2208 566 THE METROPOLITAN COMMUNITY 3
The many dimensions of the metropolitan community: human factors, problems an area faces, political difficulties, interaction between the center city and the other parts of the community. Emphasis on New York-New Jersey.

- U 2208 567 POWER AND SOCIAL STRATIFICATION 3**
Theoretical and empirical approaches to the phenomena of class, status and power. Examination of contemporary research on power and stratification. A comparative approach will be taken.
- U 2208 568 SOCIAL RESEARCH METHODS I 3**
The elements of sociological methods included in this course are: study design, hypotheses development, data collection techniques, use of primary and secondary sources, and field techniques. Each student will participate in the multi-city field research laboratory project which is designed and executed conjointly with graduate students and faculty of cooperating colleges. The field project provides the student with a unique experience because of his participation in major project with a team of researchers.
- U 2208 569 SOCIAL RESEARCH METHODS II 3**
Continuation of Social Research Methods I. The elements of method included are coding techniques, analysis and scientific report writing.
- U 2208 570 INDEPENDENT PROJECTS 3**
Student investigates a topic of sociological relevance under the guidance of a faculty member.
- U 2208 572 SELECTED PROBLEMS IN SOCIOLOGY 3**
The intensive exploration of a general problem in sociology. Participants contribute research into an aspect of the problem. Formed at the initiative of a department member or in response to student's interest with consent of the instructor.
- U 2208 574 SOCIOLOGY OF ETHNIC RELATIONSHIPS 3**
Analysis of relationships among ethnic groups. Causes and consequences of ethnic conflict.
- U 2208 576 THE FAMILY AS AN INSTITUTION 3**
The family unit as an institution within society; the family in contemporary American society; the family sociologically examined as an institutional form, a social system in process and a socializing agency.
- U 2208 577 SOCIOLOGY OF POVERTY IN THE UNITED STATES 3**
Examines traditional and contemporary definitions and ideologies of poverty and public welfare. Consideration of the extent and patterns of distribution of poverty. Alternative socio-economic explanations and their implications for public policy.
- U 2208 578 COMMUNITY RESOURCES AND AGING 3**
This course examines resources for the aging within their communities. Additionally, it will acquaint students with services provided by public and private agencies and relevant federal and state legislation.
- U 2208 581 SOCIOLOGICAL PERSPECTIVES ON HEALTH AND MEDICINE 3**
This course will introduce the student to the interesting and complex relationships that exist between society, health and health care. Class discussions will focus on the connections between social structure, the quality of the physical

and social environment and health. Special attention will be given to work environments. This course will also deal with the effects of social factors on the experience of one's body, the perception of disease and on the construction of medical knowledge.

U 2208 582 THE SOCIOLOGY OF HEALTH CARE SYSTEMS 3

This course will focus on the relationship between the social structure of medical institutions, professional values, the socialization of health professionals and health care. The social context for the emergence of the modern medical profession, technology and knowledge will be considered along with contemporary social trends in Western industrialized societies such as the increasing medicalization of life. A comparative analysis of healers and health care will also be emphasized.

U 2208 584 THE SOCIOLOGY OF THE CRIMINAL JUSTICE SYSTEM 3

This course will focus on how the criminal justice system (composed of police, court and correctional institutions) functions as a mechanism for the reproduction of a social order based on the unequal distribution of power, wealth and status. It will explore gender, race and class bias in the processing and imprisonment of offenders and the role of the criminal justice system in the reproduction of a "criminal" underclass. It will also examine the psychosocial experience of participants in the Criminal Justice system and the relationship between deviance and the institutions of social control.

U 2208 585 THE SOCIOLOGY OF POLICE 3

The course will examine the urban police organization from diverse sociological perspectives. Subjects include the origin and function of the police, social organization of urban police work, police personality, police and the public, police violence, police corruption and lying, status, gender and race relations within the organization, professional ideologies, professionalization and social change.

U 2208 587 THE SOCIOLOGY OF JUVENILE DELINQUENCY 3

This course will introduce students to the major sociological theories of juvenile delinquency. Of particular concern is the relationship between juvenile crime and the socio-economic and institutional arrangements of the larger society. Topics to be explored include juvenile crime in industrial capitalism, delinquency and the school experience, juvenile crime and adolescent development, the family and delinquency, class, ethnicity, gender and the delinquent experience and the juvenile justice system.

U 2208 588 AGING INDIVIDUAL IN AN AGING SOCIETY 3

As America's population shifts toward an increasingly aging society, the social aspects of aging become especially important. The purpose of this course is to examine some of the sociological theories on aging, with primary emphasis on the relationships of aging to the family, education, economics, politics, and religion.

U 2208 589 SOCIAL EPIDEMIOLOGY 3

Social epidemiology is the study of social factors in the development of disease. This course examines these social factors with particular emphasis upon the relationship of power, stratification, social environment and stress. Other

social factors (such as social status, gender, age, race, ethnicity, population, religion, and familial characteristics) in the chain of illness causality will also be examined.

U 2208 590 SOCIOLOGY OF THE LIFESPAN 3

This course deals with age and age status at individual, institutional, and cultural levels. Life-courses of individuals are structured by the age-grading of institutions and cultures through which individuals move. The social aspects of the process of aging will be examined, with particular emphasis on middle age and late adulthood.

U 2208 595 INTERNSHIP IN APPLIED SOCIOLOGY: CRIME & JUSTICE 3

Students will select an institution dealing with an aspect of crime and justice in the metropolitan area in which to become a participant-observer. Application of sociological perspective to the problems and structure of institutions is developed, under the supervision of a faculty member. Students should get faculty supervisor's approval of placement, as soon as possible, preferably before the course begins.

U 2208 596 INTERNSHIP IN APPLIED SOCIOLOGY: AGING 3

Students will select an institution dealing with an aspect of aging in the metropolitan area in which to become a participant-observer. Application of sociological perspective to the problems and structure of institutions is developed, under the supervision of a faculty member. Students should get faculty supervisor's approval of placement, as soon as possible, preferably before the course begins.

U 2208 597 INTERNSHIP IN APPLIED SOCIOLOGY: HEALTH & ILLNESS 3

Students will select an institution dealing with an aspect of health and illness in the metropolitan area in which to become a participant-observer. Application of sociological perspective to the problems and structure of institutions is developed, under the supervision of a faculty member. Students should get faculty supervisor's approval of placement, as soon as possible, preferably before the course begins.

U 2208 598 INTERNSHIP IN APPLIED SOCIOLOGY: SOCIAL RESEARCH AND POLICY 3

Students will select an institution dealing with an aspect of social research and policy in the metropolitan area in which to become a participant-observer. Application of sociological perspective to the problems and structure of institutions is developed, under the supervision of a faculty member. Students should get faculty supervisor's approval of placement, as soon as possible, preferably before the course begins.

U 2208 603 READING SEMINAR IN SOCIOLOGY 2

Required for all master's candidates concentrating in sociology who elected to take a comprehensive examination. The seminar will focus on general theoretical material and relevant readings in the student's particular area of applied sociology. Candidates should register for the seminar in the semester preceding the examination date.

SPANISH/ITALIAN

Chairperson: Dr. Vincenzo Bollettino

Graduate Advisor: Dr. Clara L. Barbeito

The program is designed to prepare students for research in language and literature, and for professional positions demanding a knowledge of Spanish: interpreters; translators; counselor service and diplomatic service in Spanish-speaking countries; Spanish newspaper and magazine editors; organizers of projects for Spanish-speaking communities; and representatives of commercial companies in Spain and Spanish America. The Master of Arts degree opens opportunities to teach in colleges and universities.

The department offers summer graduate courses at the University of Madrid. This program is designed for teachers of Spanish and those in related professions.

ADMISSION REQUIREMENTS

The Master of Arts program in Spanish is open to students who have completed at least 24 semester hours or the equivalent of undergraduate Spanish and hold a bachelor's degree. These students must take the Graduate Record Examination and Advanced Test in Spanish prior to acceptance into the program.

Students who hold a bachelor's degree or its equivalent may enroll in graduate courses without obligation to follow a master's degree program, if they have 24 semester hours or the equivalent in Spanish.

REQUIREMENTS FOR THE MASTER OF ARTS DEGREE IN SPANISH

	Semester Hours
I. Required Courses	3
1105 505 History of the Spanish Language	3
II. Peninsular Area	12
One course from each of 4 designated areas	
III. Spanish-American Area	12
One course from each of 4 designated areas	
IV. Electives	9
A minimum of three additional courses from the departmental offerings.	
V. Comprehensive Examination. The candidate for the M.A. degree will apply to the graduate advisor for the comprehensive examination one semester prior to the desired examination date.	

Minimum: 36 semester hours

For further details see the graduate advisor.

SPANISH/ITALIAN

Course Descriptions

Semester Hours

V 1105 501 ADVANCED STUDIES IN THE SPANISH LANGUAGE 3

This course provides students with the tools of stylistic analysis in order to enhance their appreciation of literary texts and to improve their own writing skills. It will acquaint the students with the principles of contrastive analysis to give them greater control over the structures of Spanish.

V 1105 505 HISTORY OF SPANISH LANGUAGE 3

The Spanish language from its origins to the present. Phonological, structural and lexical evolution from vulgar Latin, following the process of transformation from its first documentary appearance.

V 1105 516 MEDIEVAL SPANISH LITERATURE TO XV CENTURY 3

The outstanding prose and poetry of Spain from the XIth century to the XVth century paying attention to the peculiar three-cultured society of the period.

V 1105 522 THEATER OF THE GOLDEN AGE 3

Structural and thematic study of the *comedia* through readings and discussions of representative plays of the period including Lope, Tirso, Caldéron, Alarcón and Moreto.

V 1105 523 PROSE AND POETRY OF THE GOLDEN AGE 3

Critical readings of the picaresque and pastoral novels, humanistic writings of Luis Vives, Alfonso and Juan Valdés, and Gracián. Textual analysis of the poetry of the renaissance and baroque from Garcilaso to Quevedo.

V 1105 524 CERVANTES 3

The prose writings and drama of Cervantes focusing on his unique artistic achievement. Readings of *El Quijote*, *Novelas Ejemplares*, *Persiles y Segismunda*, his comedias and entremeses.

V 1105 525 ENLIGHTENMENT AND ROMANTICISM 3

The erudition of the enlightenment as symbolized by Feijoo, Jovellanos; neoclassicism; the romantic movement exemplified by Larra, *El Digue de Rivas*, Espronceda, Garcia Gutiérrez, Zorrilla, Alarcón, Costumbrismo.

V 1105 526 REALISM IN SPAIN 3

Problems germane to 19th century Spain, as shown by Fernán Caballero, Pereda, Blasco Ibáñez. Particular emphasis upon the works of Pérez Galdos.

V 1105 527 THE GENERATION OF 98 3

A reprobing into the roots of Spain through the works of Unamuno, "Azorín," Baroja, Valle-Inclán, Benavente, Ortega y Gasset and Maeztu.

V 1105 533 CONTEMPORARY SPANISH THEATRE 3

Representative plays from Benavente to Sastre are read and analyzed. Critical study of the evolution of theater in light of style, technique and thought of these playwrights.

V 1105 530 SPANISH CULTURAL HISTORY 3

A study of the formation of Spanish customs and through an investigation of the political, social and cultural influences on the Iberian peninsula from the primitive era to the present.

Prerequisite: Graduate status.

V 1105 534 SPANISH PROSE OF THE TWENTIETH CENTURY 3

Prose works of the generations of 1927 and 1936; Lorca, Casona. Trends in contemporary prose; Buero Vallejo, Sastre, Cela, Zuzunegui, Delibes, Goytisolo, Laforet, Matute and selected younger writers of the present generation.

V 1105 535 CONTEMPORARY SPANISH POETRY 3

Unamuno, Machado, Jiménez the poetry of the generation of "27" and selective readings of younger poets of today. Emphasis on textual analysis.

V 1105 540 COLONIAL SPANISH-AMERICAN LITERATURE 3

Indigenous literature such as the Popol Vuh, Rabinal Achi, and Nahuatl and Quechua poetry, the chronicles, the Inca Garcilaso and epic poetry. Sor Juana Inés de la Cruz and Concolorcorvo.

V 1105 541 SPANISH-AMERICAN LITERATURE OF THE NINETEENTH CENTURY 3

The evolution from neoclassicism and romanticism to naturalism and realism in prose and poetry. Fernández de Lizardi, Heredia, La Avellaneda, Matto de Turner, Sarmiento and the Gaucho poets.

V 1105 542 SPANISH-AMERICAN NOVEL OF THE TWENTIETH CENTURY 3

Study of the aesthetic novels of "Modernismo". Novels of the Mexican revolution, the psychological novel and novel of the land and of social reform.

V 1105 543 SPANISH-AMERICAN THEATRE OF THE TWENTIETH CENTURY 3

New trends in the Spanish-American theatre; the theater of the absurd, the theater of cruelty, and the fantastic. Readings of such representative playwrights as Emilio Carballido, Carlos Solórzano, Elena Garro, Osvaldo Dragún, Griselda Gambaro.

V 1105 546 MODERNISMO IN SPANISH AMERICA 3

Critical evaluation of the "Modernista" movement in Spanish-American poetry and prose (1870-1920). The genesis, technique, characteristics and principal writers of the movement.

V 1105 548 CONTEMPORARY SPANISH-AMERICAN NOVEL 3

A critical examination of representative works of contemporary writing in Spanish-America. The relation of the Spanish-American novel to the genre in Europe, North America and Spain.

Prerequisite: V 1105 542.

V 1105 549 CONTEMPORARY SPANISH-AMERICAN SHORT STORY 3

Study of the tendencies in the contemporary short story from the post-modernist period, realism and fantasy. The short story as a social document.

V 1105 551 CONTEMPORARY SPANISH-AMERICAN POETRY 3

Individual works of poetry as autonomous linguistic and artistic creations and as part of a general renaissance in culture. Post-modernism, vanguardism and post-vanguardism.

V 1105 560 TOPICS IN SPANISH AND SPANISH-AMERICAN LITERATURE 3

Selected specialized topics, either of a period, genre, or particular author, in Spanish or Spanish-American literature. Topic will change with each offering. Majors only.

V 1105 603 RESEARCH 3

Course designed to provide an opportunity for graduate students in Spanish to investigate and apply techniques of research. Students will write a major paper in the area of their field of specialization.

Prerequisite: Completion of at least 15 hours in the major field of specialization.

SPEECH AND THEATRE

Chairperson: Gerald Lee Ratliff

Graduate Advisor: Karl R. Moll

The Master of Arts degree in Speech and Theatre is designed to enhance the development of already existing skills in speech communication, broadcasting, or theatre. The program is structured to emphasize both the theoretical and practical approaches in communication and theatre, and to allow for original research and creative projects. Special attention is paid to the literature and history of each area of concentration, and to the respective academic and professional skills necessary to become a practitioner of the selected discipline. The course sequence and content are designed to strengthen research, performance, production, and to prepare those who wish to pursue a profession in media and arts related areas. The Master of Arts degree is also ideally suited for those who plan to continue in a program of doctoral studies. Concentrations are available in Communication Arts and Theatre.

The recent award of a \$5.7 million grant from the State of New Jersey for excellence in the arts will present unusual and challenging opportunities to graduate students in Theatre and in Communication Arts. Of particular interest will be visiting specialists, professional internships, summer theatre positions, arts management situations and creative academic pursuits.

ADMISSION REQUIREMENTS

Students wishing to matriculate as speech and theatre majors must have completed an undergraduate major or the equivalent from one of the following areas: theatre, oral interpretation, broadcasting, speech communication, or media. It is assumed that most of this work will have been in the area selected for graduate concentration. Some students may need to improve their preparatory backgrounds through undergraduate courses for which graduate credit is not given.

REQUIREMENTS FOR THE MASTER OF ARTS IN SPEECH AND THEATRE

CONCENTRATION IN COMMUNICATION ARTS

The candidate must complete all five parts of the requirements for the degree as detailed below.

	Semester Hours
I. Core Courses	6
1506 501 Survey of Research Methods	3
1506 534 Graduate Readings in Speech and Theatre	3
II. Required Courses within the concentration	15
0603 510 Television Production I	3
0603 582 Techniques of Broadcast Communication	3
1506 526 Theories of Human Communication	3
0603 511 Television Production II	3
or	
1506 536 Seminar in Persuasion	3
599 Independent Study	3
III. Elective Courses within the department	6
In consultation with the graduate advisor, the candidate should select those courses most appropriate to the development of the candidate's interest. Among those to consider:	
0603 580 Internship in Public Media Arts	3-7
0603 581 The Broadcast Media and Mass Culture	3
0603 585 Proseminar in Broadcasting	3
1506 503 Advanced Voice and Speech Improvement	3
1506 519 Seminar in Rhetorical Criticism	3
1506 560 Internship: Communication Arts	3-7
1506 565 Advanced Oral Interpretation	3
or	
1506 600 Thesis	6
IV. Non-Departmental Electives	6
Courses to be selected in allied fields outside the department	
	Total 33
V. Comprehensive Examination	
It is recommended that this written examination on department studies (offered in March and October) be taken after 24 or more semester hours have been completed.	

CONCENTRATION IN THEATRE

The Candidate must complete all five parts of the requirements for the degree as detailed below.

	Semester Hours
I. Core Courses	6
1506 501 Survey of Research Methods	3
1506 534 Graduate Readings in Speech and Theatre	3
II. Required Courses within the concentration	15
1007 511 Forms of Tragedy	3
1007 512 Forms of Comedy	3
1007 513 Modern and Contemporary Theatre History	3
*1007 525 Advanced Acting Workshop	3
1007 599 Independent Study	3
III. Elective Courses within the concentration	6
In consultation with the graduate advisor the candidate should select those courses most appropriate to the development of the candidate's interest.	
Among those to consider:	
1007 504 Contemporary Theatre Practice	3
1007 508 Internship in Dramatic Production	3-7
1007 514 Non-Western Drama and Theatre	3
1007 517 Theatre Criticism	3
1007 535 Advanced Directing Workshop	3
1007 545 Scenic Design I: Legitimate Theatre	3
1007 546 Scenic Design II: The Performing Arts	3
1007 554 Stage Lighting and Design	3
1007 575 Seminar in Costume Design and Construction	3
1007 580 Theatre Management	3
1506 565 Advanced Oral Interpretation	3
or	
1506 600 Thesis	6
IV. Non-Departmental Electives	6
Courses to be selected in allied fields outside the department	
	Total 33
V. Comprehensive Examination	
It is recommended that this written examination on department studies offered in March and October be taken after 24 or more semester hours have been completed.	
* A technical course may be substituted by those interested in technical theatre.	

SPEECH AND THEATRE

Course Descriptions	Semester Hours
I 0603 500 INDEPENDENT STUDY	1-3
The undertaking of course work in one of the regularly listed catalog courses of the department of Speech and Theatre in a depth greater than that normally pursued in the course. Students will arrange the nature of	

the work with the instructor prior to the second meeting of the course. Written permission must be obtained from the graduate advisor for speech and theatre prior to registration. Independent study may be elected more than once during the graduate program.

I 0603 510 TELEVISION PRODUCTION I 3

Insight and experience in the production of in-studio programs for television. Attention on commercial production, news, interviews, demonstrations, lighting and graphics.

Prerequisite: Open to majors or by instructor's permission.

I 0603 511 TELEVISION PRODUCTION II 3

Group activity in the preparation and presentation of broadcast materials including music programming, drama, interviews and educational school programming.

Prerequisite: I 0603 510.

I 0603 580 INTERNSHIP IN PUBLIC MEDIA ART 3-7

Off campus practicum assignments at radio and television broadcasting facilities and other learning sites. Broad, balanced and locally supervised experience, by arrangement.

Prerequisite: Majors only. Application through the department prior to registration.

I 0603 581 THE BROADCAST MEDIA AND MASS CULTURE 3

Influences and effects of the broadcast media on society; policy decisions and the influence of the broadcast media as conveyors of information and stimulus for change. Open to all graduate students.

I 0603 582 TECHNIQUES OF BROADCAST COMMUNICATION 3

Techniques and ethics in the production of informative, entertainment, persuasive and public relations material for mass public consumption. Open to all graduate students.

I 0603 585 PROSEMINAR IN BROADCASTING 3

A study of the evolution of the broadcast industry's present structure and operation, as primarily influenced by political and economic forces. The course will also discuss contemporary issues that may cause structural change in the industry.

I 0603 599 INDEPENDENT STUDY 1-3

The independent study of an area of public media that results in extended knowledge of the discipline. Students will arrange the nature of the work with the instructor prior to the second meeting of the course. Independent study may be elected more than once during the graduate program.

I 1007 500 INDEPENDENT STUDY 1-3

Individual projects in theatre that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies. The nature of the course permits advanced graduate students to pursue areas of theatre not covered by present offerings.

I 1007 504 CONTEMPORARY THEATRE PRACTICE 3

The status and practices in today's professional theatre: writing, playing, staging and producing problems and trends of current theatrical fare. Supplemented by theatrical personnel and visits to professional producing groups in the metropolitan area. Open to all graduate students.

I 1007 508 INTERNSHIP IN DRAMATIC PRODUCTION 3-7

Practical experience in dramatic production under supervision of staff member of professional, semi-professional, community or educational theatre, on or off campus. Student assists director, designer, crew chief or technical supervisor. Contracts drawn by student, college sponsor and off-campus supervisor.

Prerequisite: Majors only. Application through the department before registration.

I 1007 511 FORMS OF TRAGEDY 3

The "evolution" of tragic theory as it manifests itself in each of the periods of theatre history and dramatic criticism. Included in the examination is an evaluation of representative tragic playscripts in terms of style, structure, "tragic devices," content, and performance.

I 1007 512 FORMS OF COMEDY 3

Historical survey of comic theory from Aristotle to Albee, with special emphasis on principles and practices of comic theory as revealed in selected playscripts. The basic approach is lecture by historical periods—from classical to modern—followed by reading and discussion of representative playscripts from each historical period.

I 1007 513 MODERN AND CONTEMPORARY THEATRE HISTORY 3

Theatrical history associated with western culture from 1890 to the present; the contemporary theatrical scene and its direct heritage. Some attention to American theatre but major emphasis on British and continental developments. Open to all graduate students with a background in dramatic literature.

I 1007 514 NON-WESTERN DRAMA AND THEATRE 3

Theatrical forms and dramatic literature of non-western cultures in historical and contemporary context: China, Japan, India, Southeast Asia, and Africa. Theatrical practices in staging various dramatic forms.

Prerequisite: Open to all graduate students with a background in dramatic literature or Asian studies.

I 1007 517 THEATRE CRITICISM 3

Standards and values, both personal and historical, by which plays are judged. Attendance at community and professional productions may be required. Open to all graduate students with a background in dramatic literature or theatre production.

I 1007 525 ADVANCED ACTING WORKSHOP 3

A survey of acting styles from the classical to the modern, highlighting periods of style that include Elizabethan, improvisation, commedia, and method. The basic assignments of the course are scene study, group scene presentations, and a final group project. Secondary readings in acting theory are assigned, and it is assumed that advanced drama students will refine their individual acting

techniques. The nature of the class is discussion, play analysis and in class acting presentations.

I 1007 535 ADVANCED DIRECTING WORKSHOP 3

Directing repertory and period plays. Preparation for thesis production. When possible, the student will produce a full-length play and complete a production notebook.

Prerequisite: Majors only or by instructor's permission.

I 1007 545 SCENIC DESIGN I: THE LEGITIMATE THEATRE 3

Stage design as related to the play, director and audience; styles of design, perspective sketch and stage model in planning stage setting. Stage construction techniques used to demonstrate the necessity of scene design in planning stage production.

Prerequisite: Majors only or by instructor's permission.

I 1007 546 SCENIC DESIGN II: PERFORMING ARTS 3

Design problems inherent in musical comedy, opera and dance. Physical qualities of space, arena and proscenium staging and the challenges of each. Projects will involve both lighting and scenic design. Open to graduate students with a background in the performing arts.

I 1007 554 STAGE LIGHTING DESIGN 3

Introduction to light from pragmatic and esthetic points of view. Functions and qualities as a design medium, types of control and instrumentation available to designer. Development of several lighting designs.

Prerequisite: Majors only or by instructor's permission.

I 1007 575 SEMINAR COSTUME DESIGN AND CONSTRUCTION 3

Costume as one visual element of design in the theatre. Research procedure, design theory, construction techniques, use of materials.

Prerequisite: Majors only or by instructor's permission.

I 1007 580 THEATRE MANAGEMENT 3

The theatre as a business enterprise: production units; box office procedures; standard contractual arrangements; unions and their regulations; subscription management. Manager as a community relations specialist; publicity; the theatre as a community resource. Open to graduate students with a background in performing arts.

I 1506 500 INDEPENDENT STUDY SPEECH-THEATRE 1-3

Selected topics in the areas of speech, theatre history, criticism, literature and design are pursued by advanced graduate students in consultation with the graduate faculty. The area for detailed investigation is selected, research and analysis is made, and the student submits a formal research paper to complete the assignment. There are weekly meetings with the instructor to provide guidance, and the student is also responsible for an annotated bibliography.

I 1506 501 SURVEY OF RESEARCH METHODS 3

Research methods relating to rhetorical theory, public address, interpersonal communication, theatre history, dramatic production and contemporary theatrical idiom. Historical, critical, descriptive, quantitative and experimental models and methodologies. Individual student needs and interests considered.

Prerequisite: Majors only.

I 1506 503 ADVANCED VOICE AND SPEECH IMPROVEMENT 3

To refine the voice and diction patterns of the advanced student. Provides student with techniques of evaluating and improving speech of others in a practical setting.

Prerequisite: Majors only or by instructor's permission.

I 1506 509 SPECIAL PROBLEMS IN SPEECH AND THEATRE 3

Individual problems in theatre, speech and mass communication. Reports, papers, panel discussion and experimentation.

I 1506 526 THEORIES OF HUMAN COMMUNICATION 3

Develop knowledge of human communication behavior as it relates to intrapersonal, interpersonal, small group, and mass communication. Students develop awareness of communication behavior patterns and cultivate ability to select appropriate and effective communication behaviors for optimum results.

I 1506 533 LECTURE AND LECTURE RECITAL 1

Study of professional work on the public platform climaxed by a lecture or recital of a professional nature.

Prerequisite: Majors Only.

I 1506 534 GRADUATE READINGS IN SPEECH AND THEATRE 3

Selected topics of an advanced nature that require research and library use of primary and secondary sources. Individual topics are selected with the approval of the faculty member and the student does independent research that results in a significant written project of less than thesis magnitude.

Prerequisite: I 1506 501.

I 1506 536 SEMINAR IN PERSUASION 3

Critical examination of psychological, sociological and cultural dimensions of persuasive discourse.

I 1506 560 INTERNSHIP: COMMUNICATION ARTS 3-7

Off-campus practicum assignments range from serving on campaign speaker's or public speaker's speech staff to coaching students and/or conducting forensic tournaments. Broad, balanced and locally supervised experience, by arrangement. Application through the department prior to registration.

I 1506 565 ADVANCED ORAL INTERPRETATION 3

Techniques in interpretation of poetry and prose; analysis and presentation of types of literary genres (short story, ballad, essay, narrative, sonnet, etc.) For use in classroom and special programs. Open to all graduate students.

I 1506 599 INDEPENDENT STUDY 1-3

Individual projects in speech that result in significant research or creative projects. Student and instructor agree upon an area of study, readings are assigned, research is done and student submits final findings in form of a paper or a series of annotated bibliographies or position papers. The nature of the course permits advanced graduate students to pursue areas of speech not covered by present offerings.

I 1506 600 THESIS-SPEECH AND THEATRE 6

Individual research or creative project selected under advisement of a faculty committee. An oral exam follows the project. Student should register for the semester in which work will be completed. Written permission for registration from the graduate advisor is required.

NON-DEGREE POST-BACCALAUREATE, POST MASTER OF ARTS APPROVED CERTIFICATION PROGRAMS

*Chairperson: Dr. Catherine Becker, Department of Curriculum and Teaching
Certification Advisor: Ms. Marcella P. West*

1. TEACHER CERTIFICATION

A student with a baccalaureate degree may receive a New Jersey teaching certificate, and a fully certified teacher may obtain additional teaching field endorsements or advanced certification while attending Montclair State College. (See Certification Areas following this section.) Students planning to enter the Approved Teacher Certification program must follow the prescribed admission procedures described below. Upon successful completion of an approved program and the National Teachers Examination (NTE) in the appropriate area/field, the student will be recommended to the New Jersey Department of Education for a teaching certificate. Students interested in teaching outside of New Jersey should seek information from the appropriate state authorities before contacting the certification advisor or any departmental advisor. Applicants holding an undergraduate degree from a country outside of the United States should have records evaluated by a creditable foreign credentials evaluation service. This is necessary to establish and satisfy the 60 approximate hours in general education required for admission to the teacher education program. Applicant may contact the Certification Advisor for recommendations relative to this requirement.

ADVISEMENT

All general questions regarding certification and requests for specific information concerning procedures and courses applicable toward approved initial teacher certification programs available at Montclair State College should be directed to Ms. Marcella P. West, Certification Advisor, (201) 893-4139 in the School of Professional Studies. Students seeking counseling may make an appointment with the certification advisor. Students should call ahead for an appointment.

ADMISSIONS

Those interested in the Post Baccalaureate/Post MA Approved Teacher Certification Programs may obtain an application upon request from the Office of Graduate Studies, (201) 893-5147 or the Certification Advisor's office, (201) 893-4139. Upon acceptance, a student is assigned to the certification advisor

who will develop with the faculty (teaching field) advisor a formal program of studies.

Continuous advisement is available and expected for students enrolled in the Approved Teacher Certification Programs. A grade point average (GPA) of 2.50 is required for admission to the Teacher Education Program. The GPA in the teaching field may be higher and will be necessary in determining eligibility for the program. The Office of Graduate Studies requires the following from each applicant to the Approved Teacher Certification Program: (1) complete non-degree post-baccalaureate application for admission; (2) copy of teaching certificate where appropriate; (3) copy of an official transcript from each college or university attended.

The certification advisor receives the completed application file from the Office of Graduate Studies. Using admission to teacher education forms the advisor requests three recommendations from individuals who are aware of the applicant's scholastic aptitude and character, and who are able to provide evidence of the applicant's interest in community affairs and teaching. In addition, a demonstration of competence in speech is required before full admission to a teacher certification program. Each department (teaching field) has specific requirements, including grade point average which have been determined according to College procedures, and which are followed in determining eligibility for admission.

TEACHER CERTIFICATION PROGRAM REQUIREMENTS

Requirements for teacher certification may be revised. Students are urged to contact the certification advisor to verify requirements. Requirements listed in the catalog are subject to change without notice. The New Jersey State Board of Education requires candidates for instructional certificates to take sections of the National Teacher Examination (NTE) or, in some cases, the Graduate Record Examination, and achieve a minimum score prior to certification. Changes in the National Teacher Examination requirements as to tests required and cut off scores may occur at the prerogative of the State. Information regarding which tests to register for, NTE Bulletins, and how to register is available in the Offices of Graduate Studies, Certification Advisor and in the Teacher Education Office.

General Education

Academic background requires approximately sixty semester hour credits in General Education including study in at least four of the following areas: English, Mathematics, Science, Social Science, Fine and Practical Arts, Foreign Languages, Music and Philosophy.

Professional Education

			Semester Hours
A.	Social Behavioral Science Component		
	2001	101	General Psychology I-Human Growth and Development
			3
	2001	200	Educational Psychology
			3

	Human and Intercultural Relations Elective (Graduate Level)	3
B.	Professional Education Component	
	0829 200 Initial Field Experience	1
	0829 410 Intermediate Field Experience in Education	1
	(Speech Proficiency Requirement)	
	Details provided by Certification Advisor	
	(Physiology/Hygiene Requirements)	
	Details provided by Certification Advisor	
	Major Departmental Methods Course(s)	3
	0829 400 Teacher, School & Society	3
	0830 407 Reading I, Theory & Process	3
	0830 408 Reading II, The Content Areas	3
	0821 520 Development of Educational Thought	3
	0829 5 Educational Elective	3
	0829 411 Supervised Student Teaching, or	8
	0829 414-5 In-Service Supervised Teaching	8
	Co-requisite with all Student Teaching Experiences	
	0829 401 Senior Field Experience and	1
	0829 402 Seminar in Professional Education and	1
	*0829 435 Effective Teaching/Productive Learning	2
	*Major Seminar	1
C.	Teaching Field (Must be selected with departmental approval)	

Note:

- 1) The two field experience courses must be completed prior to the semester in which Student Teaching is desired.
- 2) All applicants filing for admission to the Approved Certification and/or M.A.T. Programs must fulfill the course requirements in the Human and Intercultural Relations area for initial Teacher Certification. The course taken to fulfill this requirement must be selected from the approved courses lists. Contact the Certification Advisor for recommended courses.

D. Supervised Student Teaching

Students who have been admitted to Teacher Education and who are eligible for Student Teaching are required to file an application during the semester prior to the one in which Student Teaching is desired. Application procedures must be completed by September 15 for Student Teaching in the following Spring semester; March 15 for Student Teaching in the following Fall semester. All appropriate departmental and professional education courses must be completed prior to filing the application for Student Teaching. This normally includes a minimum of 12 semester hours completed at Montclair State College, including methods in the teaching field.

I. Certification Areas

- A. Business Education: General Business Studies and Accounting, General Business and Secretarial Studies, General Business and Distributive Education
- B. Communication Sciences and Disorders: Speech Correction, Teacher of the Handicapped
- C. English

- D. Art
- E. Foreign Languages (French, German, Italian, Latin, Russian*, Spanish)
- F. Health and/or Physical Education
- G. Home Economics
- H. Industrial Arts: Industrial Arts (academic background), Industrial Arts (experience background), Vocational/Technical Education
- I. Mathematics
- J. Music
- K. Nursery School Education-Preschool, Kindergarten
- L. Science (Biology*, Chemistry*, Geoscience*, Physics*)
- M. Social Studies
- N. Speech and Theatre

II. Advanced Certification (Post-Masters)

State certification is available in the following non-teaching educational specializations:

- A. Administration and Supervision: Supervisor (MA + 15 semester hours in appropriate course work), Principal, Superintendent
- B. Learning Disabilities Teacher-Consultant
- C. Student Personnel Services (Guidance)
- D. Educational Media Specialist
- E. Reading Specialist
- F. School Social Worker

III. Other Fields/Endorsements

Non-degree programs leading to state certification are available in the following areas:

- A. Associate Media Specialist
- B. Bilingual/Bicultural
- C. Coordinator Industrial Education
- D. Reading*
- E. Psychology*
- F. School Business Administrator
- G. School Psychologist
- H. School Social Worker
- I. Student Personnel Services (Guidance)
- J. Teacher-Coordinator, Cooperative Vocational-Technical Education
- K. TESL (Teaching of English as a Second Language)*

*Available for second teaching fields only.

EDUCATIONAL PLACEMENT

The Office of the Director of Teacher Education offers an educational placement service. Students completing at least 12 credits at Montclair State College are eligible to register for this service. Further information can be secured from Dr. Robert Pines, Director of Teacher Education, (201) 893-4262.

DIRECTORY

GRADUATE ADVISORS

	Office	Tele.
Administration and Supervision: <i>Dr. Anne C. Castens</i>	Chapin Hall 102	(201) 893-5183
*Educator Trainer (Training Personnel)		
Adult Continuing Education: <i>Prof. Raymond J. Ast, Jr.</i>	848 Valley Road	4355
Biology: <i>Dr. Larry Cribben</i>	Mallory Hall 252D	5107
Business Administration: <i>Dr. Harold Flint, MBA director</i>	Morehead Hall 103	4306
*Accounting		
*Business Economics		
*Finance		
*Management		
*Marketing		
*Quantitative Analysis		
Business Education: <i>Dr. Albert Rossetti</i>	College Hall 302	7039
Chemistry: <i>Dr. Joseph F. Becker</i>	Richardson Hall 345	7166
Communication Sciences and Disorders		
*Audiology: <i>Dr. Gerald Woolf</i>	Speech Building 101	4226
*Early Childhood Special Education: <i>Dr. Warren Heiss</i>	Speech Building 119c	4232
*Learning Disabilities: <i>Dr. Warren Heiss</i>	Speech Building 119c	4232
*Speech-Language Pathology: <i>Dr. Gerald Woolf</i>	Speech Building 101	4227
Computer Science: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
Counseling and Guidance		
*Human Services: <i>Dr. Arlene King</i>	Chapin Hall 318	5175
School Social Worker		
Educational Psychology: <i>Dr. Paul Locher</i>	Russ Hall 13	7381
English and Comparative Literature	Partridge Hall 408	4249
Environmental Studies: <i>Dr. W. Augustus Rentsch</i>	Russ Hall 122	4188
*Environmental Education		
*Environmental Health		
*Environmental Management		
*Environmental Science		
Fine Arts: <i>Prof. Patricia Lay</i>	Calcia Fine Arts Bld. 121	7294
*Art History		
*Fine Arts Education		
*Studio		
*Studies in the Visual Arts		
French: <i>Dr. Kathleen Wilkins</i>	Partidge Hall 423	5145
Geoscience: <i>Dr. Charles L. Hamilton</i>	Mallory Hall 252N	7273
Health Education: <i>Dr. Harry H. Hoitsma</i>	College Hall 305	4154
Home Economics: <i>Dr. Karen Todd</i>	Finley Hall 111	4171
*Family Relations/Child Development		
*Home Economics Education		
*Home Management/Consumer Economics		
Industrial Studies: <i>Dr. George A. Olsen</i>	Finley Hall 216	4165
Master of Education: <i>Dr. Catherine Becker</i>	Chapin Hall 218	5187
Mathematics: <i>Dr. Helen Roberts</i>	Richardson Hall 204	7262
*Computer Science		
*Mathematics Education		
*Pure and Applied Math		
*Statistics		

*Area of Concentration

GRADUATE ADVISORS

Music: *Dr. Donald Mintz*

- *Music Education: *Dr. Jack Sacher*
- *Performance
- *Theory Composition

Physical Education: *Dr. Ree K. Arnold*

Psychology: *Dr. Paul Locher*

- *Industrial and Organizational Psychology

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Speech and Theatre: *Prof. Karl Moll*

- *Communication Arts
- *Theatre

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- *Teaching Middle School Philosophy:
- Dr. Ann Margaret Sharp*

*Area of Concentration

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Tele.

McEachern Music Building 1 (201) 893-7220

Panzer School Center 7091

Russ Hall 13 7381

College Hall 105 4247

College Hall 105 4247

College Hall 105 4247

Russ Hall 230 7223

Russ Hall 213 5261

Russ Hall 219 4119

Russ Hall 402 7403

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Russ Hall 316 7224

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Russ Hall 219 4119

Mallory Hall 252A 4397

Morehead Hall

H-103 4306

Morehead Hall 209 4174

Russ Hall 208 5255

Morehead Hall

H-202 4381

Morehead Hall 208 4280

Morehead Hall 210A 4254

College Hall 302 4269

Richardson Hall 354 5140

Partridge Hall 417 4419

Speech Building 105 4232

Chapin Hall 318 5175

Chapin Hall 218 5187

Chapin Hall 102 5183

Partridge Hall 408 4249

Russ Hall 308 5258

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<i>Dr. John J. Kirk</i>	Branchville, NJ	201-948-4646
Physical Education, Recreation, and Leisure Studies:		
<i>Dr. Joan Schleede</i>	Panzer School Center	201-893-5253
Political Science: <i>Dr. William Batkay</i>	Russ Hall 326	4238
Psychology: <i>Dr. Roland Siiter</i>	Russ Hall 226	5201
Sociology: <i>Dr. Meredith McGuire</i>	Russ Hall 313	5263
Spanish: <i>Dr. Vincenzo Bollettino</i>	Partridge Hall 416	4285
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Directions to the Campus



BY CAR FROM:

Bloomfield Ave., Montclair: North on Valley Road (by fire department), 3.3 miles to Normal Ave. light, turn left.

Route 46 (East and West): Valley Road, Montclair exit (at Route 3 junction), south for approximately one mile to Normal Avenue light, turn right. **Route 3:** Valley Road, Montclair (at Route 46 junction), south for approximately one mile to Normal Ave. light, turn right.

Garden State Parkway North: Exit 153B (left lane) to Route 3 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. **Garden State Parkway South:** Exit 154 to Route 46 West, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right.

New Jersey Turnpike: Exit 16W to Route 3, to Valley Road, Montclair exit, south for approximately one mile to Normal Avenue light, turn right. Motorists traveling on the Turnpike South to Exit 11 may exit there to Garden State Parkway North.

Lincoln Tunnel: Follow to Rte. 3.

George Washington Bridge: Route 80 to Garden State Parkway South.

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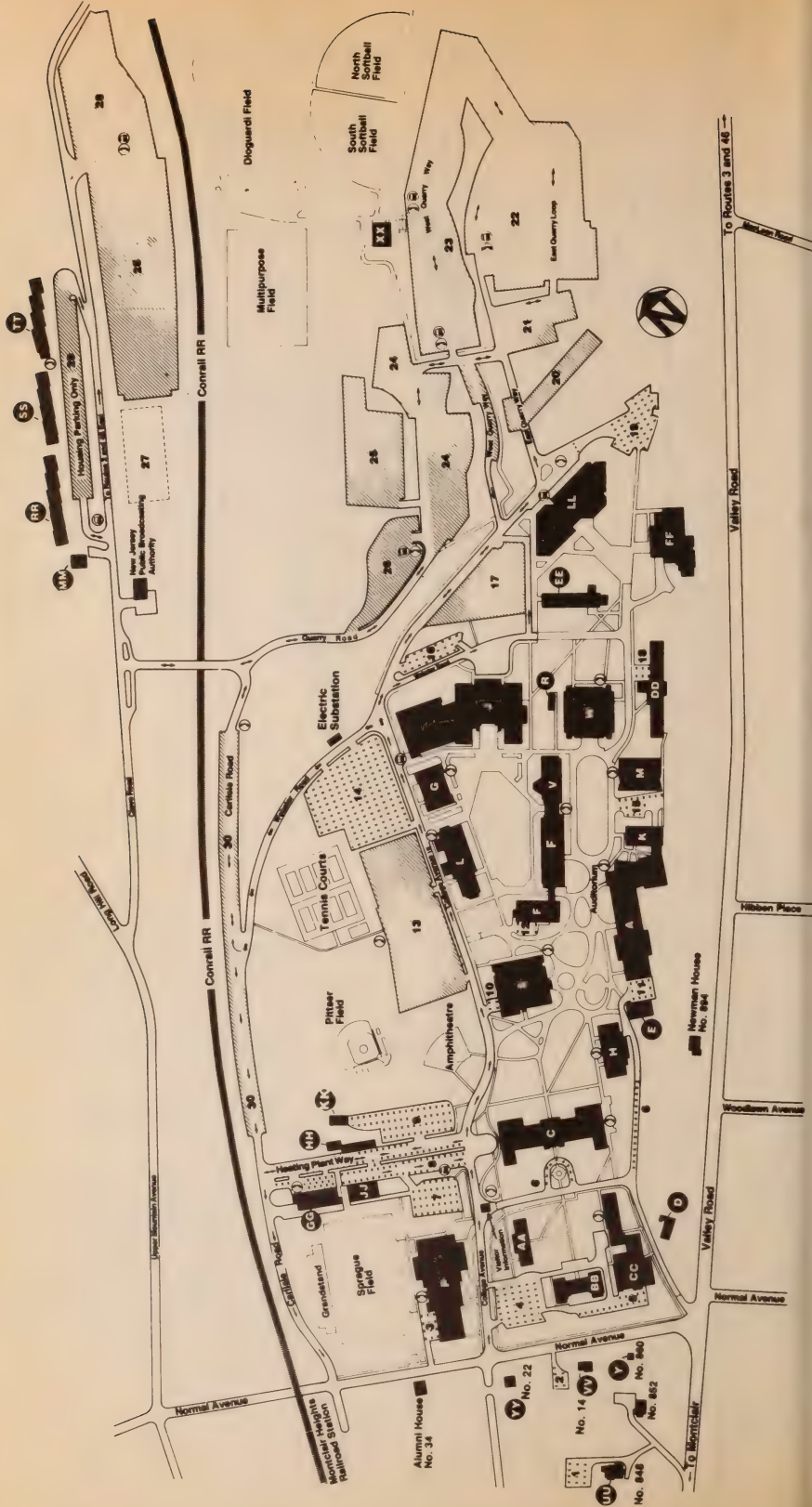
New York City (by bus): DeCamp Bus No. 66 leaves Port Authority Bus Terminal at half past the hour. Get off at Mt. Hebron and Valley Roads, turn right (north) on Valley and walk one long block to the Normal Avenue traffic light, then turn left to campus entrance.

New York City (by train): Take PATH service to Hoboken, transfer to Conrail, and get off at Montclair Heights Station at southwest corner of campus.

Newark: Transport of New Jersey Bus No. 60 originates at Macy's, Market and Washington Streets and terminates its run on campus. Every 17 minutes.

The Oranges: Trackless Transit Bus No. 64 originates at Veterans Administration Hospital, Tremont Avenue, East Orange, travels along main streets in the Oranges to Bloomfield Avenue, Montclair. Change to No. 60 at Montclair Center. Once an hour.

Paterson: Transport of New Jersey Bus No. 128 originates at Broadway Terminal, Paterson and goes to Bloomfield. Change to No. 60 at Bloomfield Center. Every 45 minutes.





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